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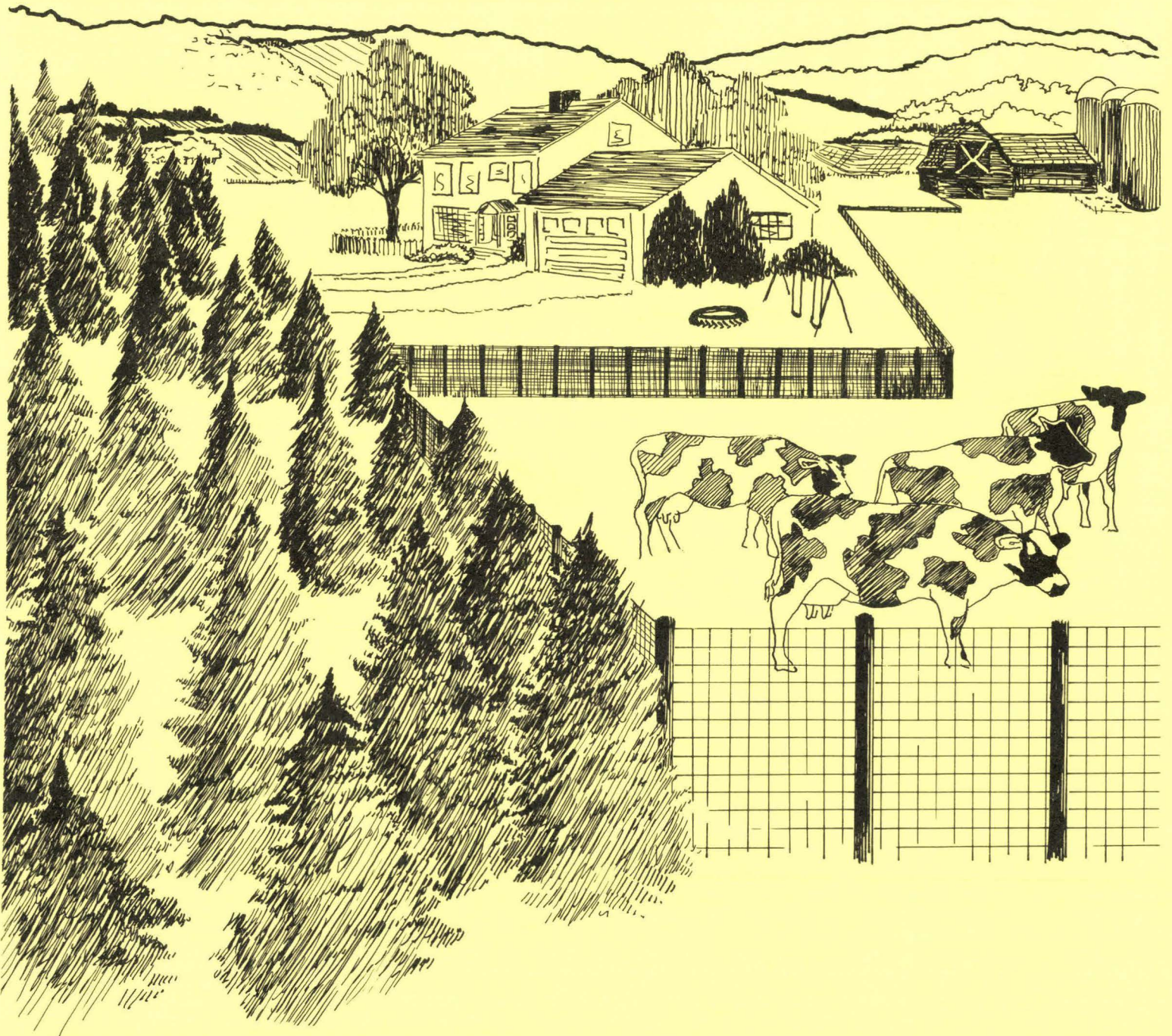
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# Wisconsin Private Timberland Owners: 1997

Earl C. Leatherberry

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### **DEDICATION TO THOMAS W. BIRCH**

Thomas W. Birch, one of the Nation's foremost authorities on forestland owners and their concerns, died of cancer in January 2000. Tom was a wonderful man, dedicated to his Nation, his work, and his family. A native of Illinois, he spent most of his professional career conducting surveys of forestland owners as a Forester with the USDA Forest Service at the Northeastern Station. Over the last 7 years, I had the good fortune to work with Tom on several projects. As I began conducting research in the landowner arena, Tom served as my mentor, giving me guidance and generously sharing his time and wisdom. We were preparing to conduct a survey of the Nation's forestland owners when he died.

As a token of what Tom Birch has meant to the forestry community, to the Nation at large, and to me, I feel that it is fitting and proper to dedicate this publication to him. His memory will be perpetuated through his work and the impressions he left with those who knew him.

*Earl C. Leatherberry*

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## HIGHLIGHTS

### Owner Characteristics

- An estimated 262,234 private timberland owners in Wisconsin hold an estimated 10,811,900 acres of timberland.
- Small timberland holdings predominate. On average, 90 percent of owners have fewer than 100 acres of timberland. A few owners, mostly forest industry, have sizeable tracts of timberland in northern Wisconsin.
- Almost three-quarters of private owners own one tract or parcel of timberland. Ten percent of owners hold timberland in three or more tracts, and they own more than one-third of the State's private timberland.
- Most timberland owners reside within a mile of their land. However, more than one-quarter of owners have timberland that is more than 25 miles from their residence or business.
- Ninety-five percent of owners are individual or joint owners, and they hold 80 percent of the private timberland in Wisconsin. Only 1 percent of owners are corporations, but they hold 14 percent of the private timberland. Other owners hold timberland in partnerships, associations, or trust.
- Individual timberland owners are older than the general population—one-quarter of the owners are 65 years or older and a like proportion are retired. Retirees also hold over one-quarter of the private timberland in the State.
- Corporations and other nonindividual owners account for 5 percent of owners. Forest industry holds the largest share of nonindividual timberland with over 1 million acres.

### Owner Objectives and Motives

- Timberland owners hold land for a variety of reasons, primarily as a place for recreation and esthetic enjoyment. Timber production is not an important reason for owning timberland. However, those who own timberland for timber production control 13 percent of the State's private timberland area.
- Benefits derived from owning timberland correspond closely to reasons for owning timberland. Recreation and esthetic enjoyment are the primary benefits of owning timberland. Also, owners expect to receive benefits in the future similar to those they received in the past.

### Timber Harvesting Activity

- Although most owners do not hold timberland for timber production, almost half of owners (46 percent) have harvested timber from their land. Owners who harvested timber control 72 percent of the private timberland area.
- Among individual owners, timber is generally harvested because owners believe timber is "mature." More than one-quarter of individual owners have harvested timber for their own use, primarily for fuelwood. Industry owners harvest timber primarily to supply mills and improve stand condition.
- More than half (54 percent) of owners have never harvested timber from their land. These owners hold 28 percent of the private timberland in Wisconsin.
- Many owners do not harvest because they believe scenery would be reduced. Other important reasons for not harvesting are that holdings are too small, or that the owner generally does not believe that timber is of a size or quantity to warrant harvest. Sixteen percent of the owners did not harvest because they are opposed to harvesting; they own 15 percent of the area (454,730 acres) that was not harvested.

### **Timber Harvest Plans**

- Nearly 7 of every 10 owners plan to harvest timber sometime in the future. They own nearly 9 of every 10 acres of private timberland in the State.
- Slightly more than one-quarter of owners say they will never harvest timber. They own 1 of every 10 acres of private timberland. Owners who never expect to harvest timber come from all occupational backgrounds, but retired owners hold the largest share of acreage with no plans to harvest.

### **Forest Management Assistance**

- Slightly more than one-third of all owners do not know an agency or office to contact for forestry management assistance. As size of holding increases, timberland owners are more knowledgeable about sources of professional forest management assistance.
- Twenty-eight percent of owners have requested forestry management assistance. As size of holding increases, owners are more likely to seek and use professional management assistance.

### **Recreational Use of Timberland**

- The majority (63 percent) of owners use their timberland for recreation. Hunting is the most popular activity.
- On timberland belonging to 4 out of every 10 owners, the owner, owner's family, and friends engage in hunting. Other important recreation activities are hiking and birdwatching—about one-third of owners do those activities on their land.
- Nearly three-fourths (72 percent) of owners do not permit the public to recreate on their timberland. They own 58 percent of the State's private timberland.
- Owners who allow public recreation permit a variety of activities, primarily snowmobiling, hunting, and hiking. As size of holding increases, owners are more likely to permit public use of their timberland.
- Forty-four percent of owners post their timberland against public entry; they own 55 percent of private timberland in the State. Primary reasons for posting land are to control or prohibit access and to control hunting.

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# Wisconsin Private Timberland Owners: 1997

Earl C. Leatherberry

## INTRODUCTION

In Wisconsin, there are 34.8 million acres of land and about half (16 million acres) are forested. Nearly all forest land—98 percent (15.7 million acres)—is timberland. Timberland is land that is producing or capable of producing industrial wood crops and is not administratively or legislatively excluded from timber harvest. Timberland is not associated with urban or rural development and is at least 1 acre in size. (See Appendix for complete definition of terms used in this paper.) Seven of every 10 acres (10,811,900 acres) of timberland in Wisconsin is privately owned (table 1). Private timberland owners are a person, combination of persons, or legal entities such as corporations (including forest industry), partnerships, associations, or trusts that control timberland.

Wisconsin's private timberland provides an array of benefits. For example, in the State, 15 distinct forest habitat groups have been identified that represent a range of ecological conditions (Kotar *et al.* 1999). Private timberland is the foundation that supports the forest products industry, the second largest manufacturing sector in the State, which employs nearly 90,000 workers and has an annual payroll approaching \$3 billion (American Forest and Paper Association 1997). Also, expenditures for travel, licenses, taxes, and other expenses associated with forest-based activities contribute significantly to rural economies. In addition, private timberlands are important recreational resources for activities such as hiking, skiing, hunting, fishing, and visiting second homes. These and other activities bring enjoyment and a sense of accomplishment to many people.

Owners of timberland are a diverse group. Some have held timberland for many years and others only recently acquired it. The amount of timberland owned ranges from an acre to thousands of acres. Some owners use timberland as a source of income, while others view timberland as simply part of the farm or residence. Some are absentee owners who use their timberland as a recreation resource, while others seldom visit the land they own. The diversity associated with timberland owners and the societal benefits derived from those lands raise a number of important public policy concerns. Perhaps most important is ensuring the sustainable flow of timber, and other goods and services such as ecological diversity and recreational opportunities, from private timberland.

To ensure the sustainable flow of goods and services from private timberland and to protect and enhance owners' rights and responsibilities, it is important to have pertinent information about owners. In an effort to better understand Wisconsin's private timberland owners, the Forest Inventory and Analysis Program of the USDA Forest Service surveyed a sample of timberland owners during the winter of 1997. The survey was systematic and conducted throughout the State. The objectives of the survey were to: (1) identify and profile private timberland owners; (2) ascertain their objectives and motives for owning timberland, including benefits received from owning timberland and expected benefits; (3) determine the extent of timber harvest activities, including reason for harvesting or not harvesting, and harvest plans; (4) determine owners' knowledge and use of professional forestry management assistance; and (5) ascertain how owners viewed public use of their land.

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The study population was drawn from Wisconsin's private timberland area. An estimate of timberland area was based on a comprehensive inventory of Wisconsin forest resources (Schmidt 1997). As part of the

## AN OVERVIEW OF WISCONSIN'S PRIVATE TIMBERLAND

forest inventory, the name and address of owners whose land was inventoried was recorded. Questionnaires were mailed to a sample of those private timberland owners. The response rate to the questionnaire was 49 percent. Those responses were statistically expanded to estimate the State's population of private owners and the traits and characteristics associated with them. The Appendix contains a more detailed discussion of survey procedures and response rate. Tabular data upon which this report was based are found in the Appendix. Select tables contain sampling errors that are helpful in assessing the reliability of the estimates provided.

In 1984, Roberts *et al.* (1986) surveyed a sample of Wisconsin's nonindustrial private timberland owners. Their survey procedures were similar to those used here. Unfortunately, the survey populations and survey instruments differ significantly, and only limited comparisons of data from the two surveys can be made. Much of the information presented here complements published statistics about the extent of timberland, the amount of wood fiber present, its physical condition, and the growth and removal rates associated with Wisconsin's timberland resources (Schmidt 1997).

To facilitate discussion and to discern regional differences in owner characteristics, Wisconsin is divided into five Forest Survey Units along county boundaries (fig. 1). Each unit represents homogeneous areas based largely on physiographic conditions and the industrial/economic character of the region. The northern region of the State—the Northeastern and Northwestern Survey Units—is predominantly rural: few towns have resident populations of more than 10,000 people. The region is more than 70 percent forested and contains 51 percent of the State's private timberland area. Private timberland is intermixed with public forests, mostly National Forests, with some State and County forests, and forests owned by Native American tribal groups. Maple-beech-birch and aspen-birch are the dominant forest cover types. The forests of the region are also characterized by boreal forest species, with spruce, fir, and northern white-cedar having a significant presence. Poletimber-size stands predominate throughout the region. Industrial roundwood production is concentrated there, accounting for 70 percent of the State's total production (Hackett and Whipple 1997).

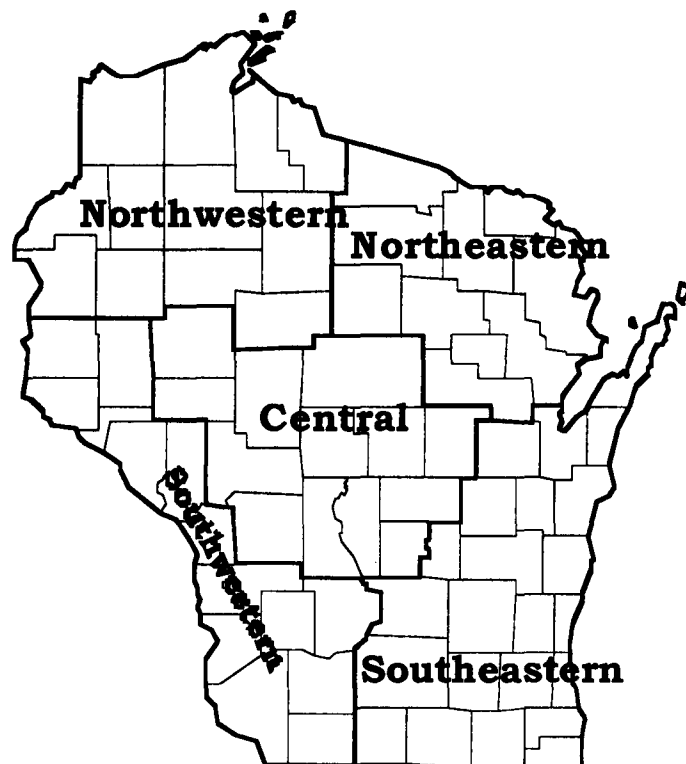


Figure 1.—Forest Survey Units of Wisconsin, 1997.

The Central Unit is mostly rural, with 43 percent of the land in forests. Small towns dot the landscape and several larger urban manufacturing centers anchor the economy. Seventy-eight percent (2,394,900 acres) of the Central Unit's timberland is privately owned. County governments own most of the remainder. The forest cover is mostly hardwoods—the oak-hickory (32 percent) and the maple-beech-birch types (25 percent) predominate, and the aspen-birch cover type has a significant presence. Pines also occupy a significant portion of the landscape, mostly in plantations (Roussopoulos and Leatherberry 1992). The Central Unit provides 20 percent of the State's industrial roundwood production (Hackett and Whipple 1997).

The southern region of the State—the Southwestern and Southeastern Units—has extensive agricultural and urban/industrial development. However, forests occupy a significant portion of the landscape. In the Southwestern Unit, one-third of the land is forested. Oak-hickory and maple-beech-birch are the dominant forest types, together occupying about 80 percent of the unit's timberland. In the more developed and populated Southeastern Unit, 13 percent of the land is forested. There the maple-beech-birch forest type is the predominant cover, occupying more than one-third of the timberland. The oak-hickory and the elm-ash-cottonwood cover types have a significant presence, each occupying 25 percent of the Southeastern Unit's timberland area. Timber stands in the southern region contain mostly sawtimber-size trees. In both units, over 90 percent of the timberland is privately owned.

## PRIVATE TIMBERLAND OWNERS

### Estimated Number of Private Timberland Owners

An estimated 262,234 private owners hold 10,811,900 acres of timberland in Wisconsin. The estimate of owners was derived using a sampling procedure similar to the one used to estimate the State's timberland area (Schmidt 1997, also see Estimation Procedures in the Appendix). The estimate of owners has an associated sampling error of 6.2 percent, or  $\pm 16,258$  owners. This means that if the study were repeated, two out of three times the resulting estimate of owners would be between

245,976 and 278,492. However, owners with fewer than 10 acres of timberland may have been under sampled by chance, resulting in a possible underestimation of their number. A comparison of sampling errors associated with owners holding fewer than 10 acres and owners holding 10 or more acres reveals sampling errors of 17.5 percent ( $\pm 16,024$  owners) and 3.0 percent ( $\pm 5,120$  owners), respectively. This means that the estimate of 91,565 owners who own fewer than 10 acres is between 75,541 and 107,589 owners. The estimate of owners with 10 or more acres is probably more precise. At 3.0 percent, the sampling error associated with the estimate of 170,669 owners holding 10 or more acres places the number between 165,549 and 175,789 owners.

### Size of Private Timberland Holdings

There are a large number of small-tract timberland owners and a small number of large-tract owners (table 2, fig. 2). About three-fourths of owners (76 percent) hold about one-fourth (28 percent) of the private timberland. More than one-third (35 percent) of owners hold fewer than 10 acres of timberland, accounting for only 3 percent of the private timberland acreage. Conversely, 10 percent of owners hold more than half (51 percent) of the private timberland area. The larger holdings, those over 500 acres, account for 17 percent of the private timberland area and are held by less than 1 percent of owners.

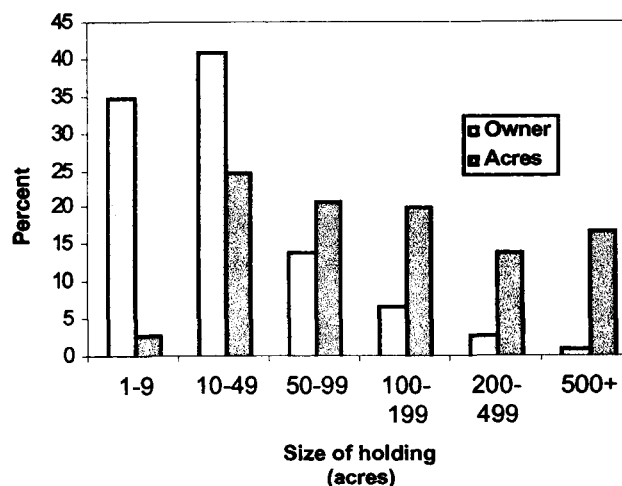


Figure 2.—Distribution of private owners by size of holding, Wisconsin, 1997.

Larger holdings are more common in the Northeastern Unit and smaller ones are more common in the Southeastern Unit (fig. 3). For instance, in the Southeastern Unit, 70 percent of owners hold about one-quarter of the timberland in holdings of fewer than 20 acres. In the Northeastern Unit, owners with more than 500 acres hold about 30 percent of the private timberland. In the Northwestern Unit, a majority of owners (58 percent) hold timberland in holdings of fewer than 20 acres. However, 1 percent of owners (about 400 owners) hold one-fourth of the unit's timberland in holdings of 500 acres or larger. The two northern units contain 9 of every 10 acres of timberland held by owners who have more than 1,000 acres.

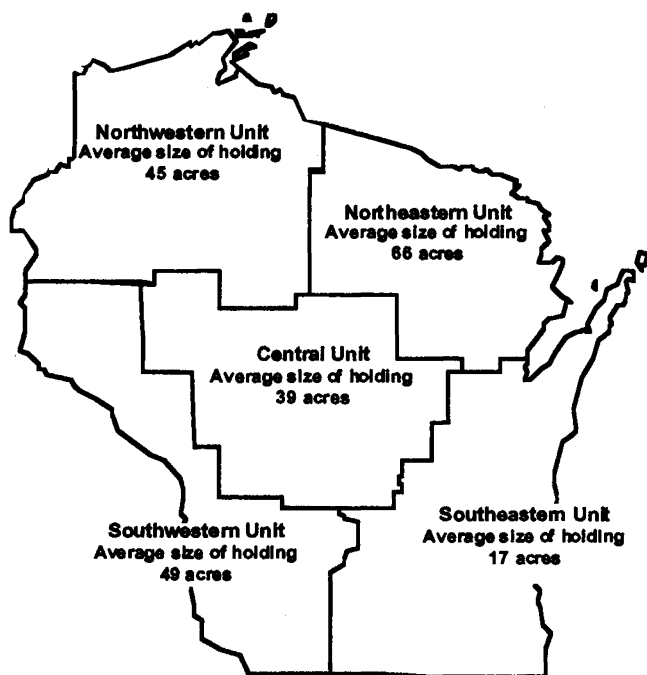


Figure 3.—Forest Survey Units and average size of private timberland holding, 1997, Wisconsin.

Owners with fewer than 50 acres hold nearly one-third of the State's private timberland. In the Central and southern units, small noncontiguous tracts are often intermixed with other land uses, especially agriculture. Change in the size of the State's dairy herd has resulted in some pastureland converting to timberland, but many of the small tracts cannot be effectively managed as sustainable timber-producing units with most traditional methods

(Sampson and DeCoster 2000). As a consequence, small tracts are increasingly becoming susceptible to the pressure of fragmentation—the dividing of timberland into smaller holdings. Also, suburban expansion has resulted in timberland near urban centers being more vulnerable to fragmentation.

Timberland in the northern units is also under fragmentation pressure, mostly from second home and other recreational developments. However, vast tracts of timberland in the north are held in contiguous tracts. These timberlands, when transferred from one owner to another, generally remain intact. Most are enrolled in the State's Managed Forest Law, which reduces property taxes until timber harvesting takes place (Wisconsin Statutes, Chapter 77). The Managed Forest Law tends to keep large tracts intact as timber producing units (Barrows and Rosner 1982).

#### Number of Tracts Owned

Single-tract owners predominate (table 3, fig. 4). Seventy-three percent of owners hold timberland in single tracts. Owners with multiple tracts, however, hold the majority of timberland acres. Seventeen percent of owners hold timberland acreage in two tracts, accounting for 22 percent of the private timberland. Just 10 percent of owners hold timberland in three or more tracts, but they own 35 percent of the private timberland acreage.

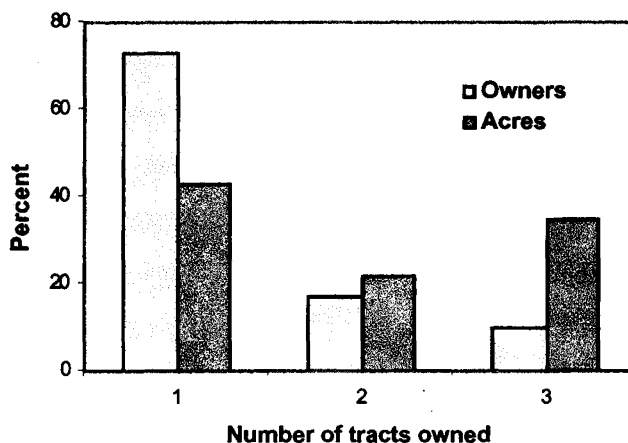


Figure 4.—Distribution of private ownership units by number of tracts owned, Wisconsin, 1997.

The Northwestern Unit has the largest share of one-tract owners: 82 percent have a single tract of timberland. The preponderance of one-tract holdings in the Northwestern Unit is reflected in the relatively small average size of holding (45 acres). Many of the holdings are used for second or seasonal homes, which generally do not require extensive tracts of timberland.

Although single-tract owners predominate throughout the State, owners holding multiple tracts are fairly common in all regions. In the northern units, owners with multiple tracts, on average, have larger holdings. To illustrate, owners in the Northeastern Unit holding three or more tracts have an average of 263 acres of timberland; in the two southern units, owners with three or more tracts have an average of just 70 acres. Throughout the State, owners of multiple tracts tend to hold larger acreages than do single-tract owners as shown below:

| <b>Number of<br/>tracts owned</b> | <b>Average size<br/>of holding<br/>(acres)</b> |
|-----------------------------------|------------------------------------------------|
| 1                                 | 24.1                                           |
| 2                                 | 54.6                                           |
| 3+                                | 140.8                                          |

#### **Distance of Timberland from Residence**

The nearest tract of timberland is within a mile of the primary residence or place of business of 58 percent of owners (table 4). Ten percent of owners have timberland located between 2 and 25 miles of their residence or business. An additional 27 percent of owners have timberland located more than 25 miles from their residence or business. Owners residing more than 25 miles from their holdings have 24 percent of the private timberland in Wisconsin. Nineteen percent of owners, controlling an estimated 1,705,762 acres, reside more than 100 miles from their timberland holdings.

In the two southern units, about three-fourths of owners in each unit are resident owners—they reside within a mile of their timberland (table 4). In the Central Unit, 60 percent of owners are resident owners. In the two northern units, fewer than 50 percent of owners are resident owners, about one-third of owners reside more than 100 miles from the timberland they own. The regional differences in

place of residence and location of timberland are related, to some extent, to why people own timberland. In the southern part of Wisconsin, timberlands tend to be associated with agriculture holdings. In the northern and central regions of the State, timberland is a more dominant aspect of the landscape. Its vastness attracts both timber harvesters and people who desire forest retreats. (The reasons people own timberland are discussed later.)

For one-tract owners the distance from residence to timberland is more clear than for multiple-tract owners. For one-tract holdings, 55 percent of owners are resident owners; they hold 52 percent of the timberland in this category (table 5). On the other hand, 66 percent of the multiple-tract owners are resident and, while they hold 58 percent of the timberland in this category, the portion of the acreage close by is not defined. For instance, some multiple-tract owners view their farthest tract as being less than a mile from their residence. These owners probably live on a tract of land and have other tracts nearby.

#### **SOCIAL CHARACTERISTICS ASSOCIATED WITH OWNERS**

##### **Owner Types**

Individual or joint owners make up 95 percent (248,654) of Wisconsin private timberland owners, and they control 80 percent (8,637,803 acres) of the State's private timberland (table 6). Individual or joint owners are single persons, or two or more individuals, such as spouses or others, not including family corporations. Individual or joint owners hereafter are referred to as individual owners. Partnerships make up 3 percent of owners and collectively control 4 percent of the private timberland. Corporations make up only 1 percent of owners but collectively control 14 percent (1,504,922 acres) of the private timberland. Club/association and/or land held in trust account for the remaining 1 percent of owners, and each category holds about 1 percent of the private timberland in Wisconsin.

Individuals own the largest share of timberland in all units. Corporate-owned timberland is concentrated in the north where about 20 percent of the private timberland in each of the two northern units is corporately owned. Much of the corporate-owned timberland in

the north is owned by forest industry. Also, club/association-owned timberland is likely to be in the north. Most of that timberland is held for recreational purposes.

Timberland connected in some way to farming is held by more than 30 percent of owners (79,473 owners) and amounts to nearly one-third (3,360,998 acres) of the private timberland in Wisconsin (table 7). Virtually all timberland connected with farming is held by individual owners.

The average size of holding differs significantly among type of owner, as shown below:

| Type of owner | Average size of holding (acres) |
|---------------|---------------------------------|
| Individual    | 34.7                            |
| Partnership   | 61.8                            |
| Corporation   | 381.4                           |
| Club/assoc.   | 105.4                           |
| Other         | 89.0                            |

### Selected Characteristics of Individual Timberland Owners

Individual timberland owners are employed in a variety of occupations: 21 percent are white collar workers, 18 percent are blue collar workers, and 13 percent are farmers (table 8). In their response to our questionnaire, 38 percent of owners indicated their timberland is connected with farming, but only 13 percent listed their occupation as farmer. Perhaps some retired owners hold timberland that is connected with farming, and some retired farmers may still view themselves as farmers. Indeed, the most distinguishing factor among individual owners is that retirees account for over one-fourth of individual owners, and as a group, they hold nearly one-fourth of the private timberland in Wisconsin.

Among individual owners white collar workers, along with farmers, tend to have larger tracts (fig. 5). The average size of holding for those owners is 42 acres. Retired persons hold an average of 35 acres of timberland. Blue-collar and service workers, on average, hold 33 acres of timberland.

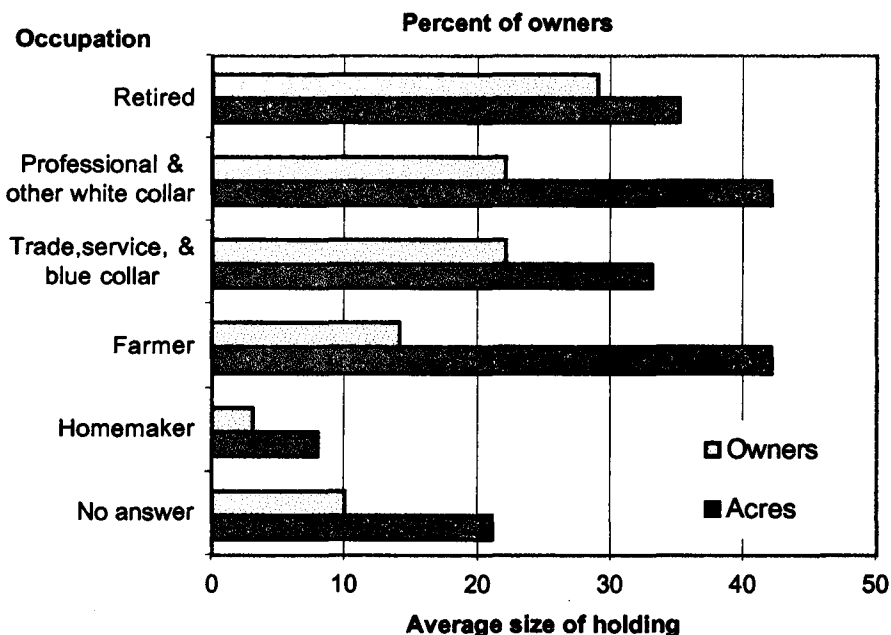


Figure 5.—Distribution of individual owners by occupation and average size of timberland holding, Wisconsin, 1997.

Because a large share of individual timberland owners are retired, it follows that timberland owners are older than the general population—25 percent are 65 years or older whereas only 13 percent of the general population is 65 years or older (U.S. Bureau of the Census 1997) (table 9). Young timberland owners—those under 45 years of age—are only 16 percent of owners (40,687 owners). About half of the “young owners” hold timberland in the Central and Southwestern Units. Age of owner does not appear to be related to amount of timberland owned.

Wisconsin's individual timberland owners have slightly higher household incomes than the State's general population. In 1995, the median household income in Wisconsin was \$40,955 (U.S. Bureau of the Census 1997). Forty-two percent of the individual timberland owners have annual incomes greater than \$40,000 (table 10). Fourteen percent have incomes greater than \$75,000. Nineteen percent of owners did not provide information about income.

#### **Selected Characteristics of Corporate and Nonindividual Timberland Owners**

Corporate and nonindividual timberland owners (partnerships, clubs/associations, or miscellaneous others) make up 5 percent (13,580 owners) of Wisconsin's timberland owners (table 11). Combined, these organizations hold an estimated 2,174,097 acres of timberland (table 12) or one-fifth of all private timberland in Wisconsin. Corporations account for 29 percent of the nonindividual owners, and they hold 14 percent of the State's (1,504,922 acres) private timberland area. Partnerships are 55 percent (7,461 owners) of the nonindividual owners and own 4 percent (461,405 acres) of all private timberland. Eighty percent of corporate-owned timberland is in northern Wisconsin and amounts to 20 percent of the timberland in the region. An estimated 883 owners are organized as clubs/associations, and they hold an estimated 93,064 acres of timberland. Club/association-owned timberland is concentrated in northern and central Wisconsin.

Forest industry is the largest corporate or nonindividual holder of timberland with 1,025,710 acres (table 12). Other firms hold timberland and may manage it for timber production but do not own primary wood-using

mills. Those firms are classed as “land investment companies,” and include owners holding land as fiduciaries for the benefit of others. The more than 600 land investment companies in Wisconsin hold 90,402 acres of timberland. Organizations that hold timberland for sport and recreation own 238,797 acres of timberland. Most of the organizations that own timberland for sport and recreational purposes are organized as partnerships or clubs/associations. These organizations range from structured memberships to informal groups.

#### **Tenure Among Owner Groups**

Over time, a given tract of timberland changes owners. Some is bought or sold; owners die and pass some to heirs; some is given to others; and some is lost through legal entanglements. The majority (58 percent) of timberland owners, holding 69 percent of the private timberland in Wisconsin, first acquired their land before 1980. These owners can be classed as “long-term” owners. The remaining 42 percent of owners, classed as “recent” owners, first acquired timberland since 1980, and they control about one-third of the private timberland (table 13). Forty-two percent of the recent owners can be classified as “new” owners—those who acquired timberland since 1990. The new owners make up 18 percent of all owners and control 11 percent of the private timberland. The two-decade period from 1970 to 1989 was a period of high turnover in timberland owners and timberland area. Nearly half of owners first acquired 44 percent of the State's private timberland area during the period.

In general, corporate and other nonindividual owners hold timberland longer than individual owners (table 13). For instance, more than half (51 percent) of the timberland—over 1 million acres—held by corporate, and other owners, was obtained before 1950. Conversely, only about 7 percent of the timberland owned by individual owners was obtained before 1950.

Tenure patterns differ by regions. Since 1980, turnover in ownership has been greater in the southern units and the Central Unit than in the northern units. In the Central and Southwestern Units, more than half of owners acquired timberland since 1980. In the Southeastern Unit, 42 percent of owners acquired

timberland since 1980. In the Northeastern and Northwestern Units, 37 percent and 29 percent of owners, respectively, acquired timberland since 1980 (table 14).

## OWNER OBJECTIVES AND MOTIVES

### Reasons for Owning Timberland

Recreation and esthetic enjoyment are the primary reasons many people own timberland. Forty-five percent of owners, controlling 41 percent of the private timberland (4,460,524 acres), own timberland primarily for recreation and esthetic reasons (table 15, fig. 6). In northern and central Wisconsin, approximately one-third of the timberland area in each of the three units is owned primarily for recreation (table 16). About one-third of owners in the two northern units and nearly

one-fourth in the Central Unit reside more than 100 miles from the timberland they own. Many nonresident owners have seasonal or second homes, primarily for recreation and esthetic enjoyment.

More than one-fourth (26 percent) of owners hold timberland primarily because it is part of residence or farm. These owners hold an estimated 2,148,694 acres, or 20 percent of the private timberland acreage. Timberland that is associated with farming is concentrated in the south. Approximately 4 of every 10 acres of timberland in the two southern units are owned because they are associated with farming. Some of that timberland is in so-called "back forties"—land too steep or too wet for row crop farming. Other farm-associated timberland is threatened by residential or commercial encroachment. Farm-associated

Reason for owning

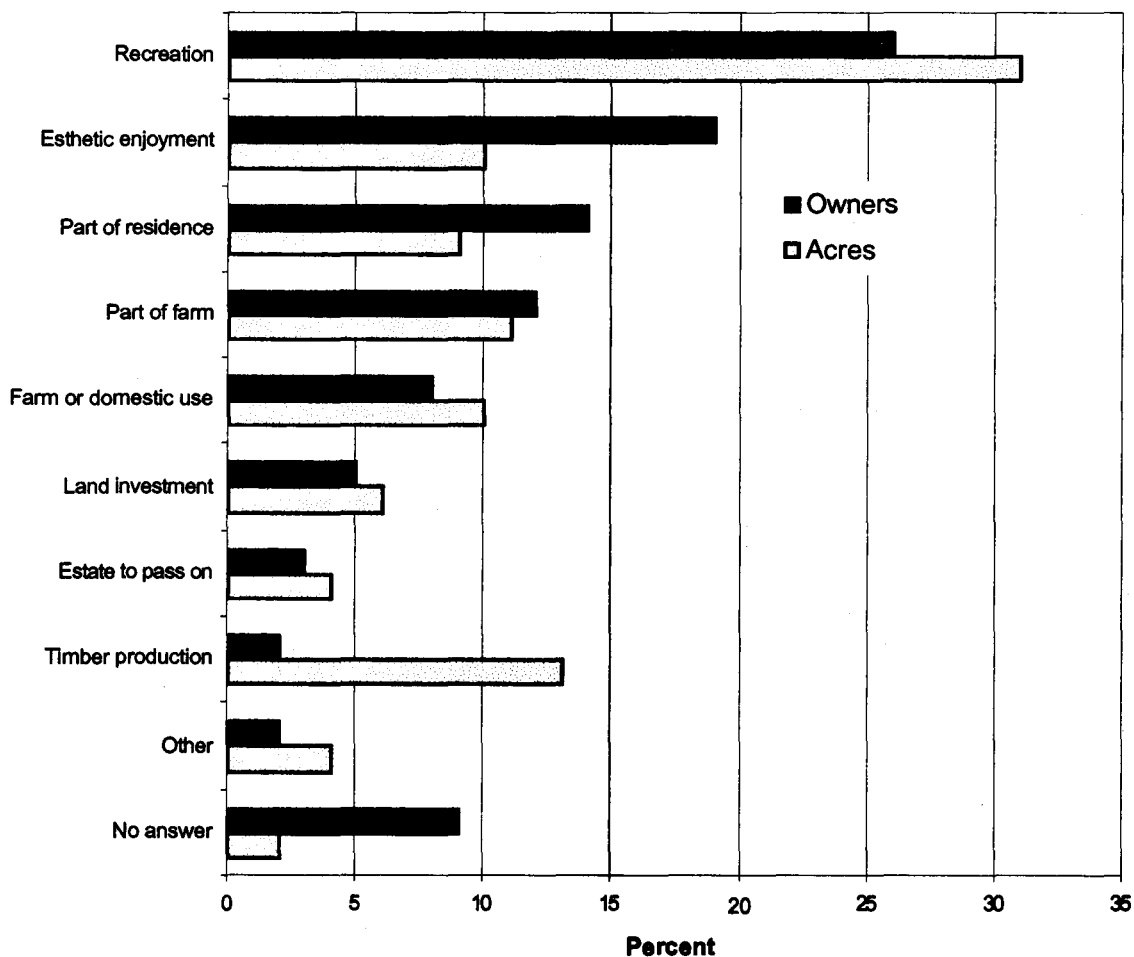


Figure 6.—Primary reason for owning timberland, Wisconsin, 1997.

woodlots provide farmers with a ready source of wood for fence posts, fuelwood, building material, recreation, and hunting opportunities.

Land investment is the primary reason for owning timberland for 5 percent of owners holding 6 percent of all private timberland. Holding timberland as an investment may be considered a passive activity and does not preclude using the land for other purposes, such as recreation or esthetic enjoyment. Also, some owners holding land as an investment may secure current income from the land through such activities as leasing the land to hunters. Owning timberland as an investment is more prevalent in the Northwestern and Southeastern Units. In each of those units, approximately 1 of every 10 acres is held as an investment.

Timber production is generally not the primary reason people own timberland. Only 2 percent of owners hold timberland primarily to produce timber. Although few in number, owners holding land primarily for timber production control 13 percent of all private timberland. In the Northeastern Unit, one-fourth of the private timberland area is owned primarily for timber production. In the Northwestern Unit,

15 percent of the private timberland is owned for timber production. Fewer than 2,000 owners in the two northern units have over a million acres of timberland owned for timber production.

### Primary Benefits Received

Recreation (25 percent) and esthetic enjoyment (43 percent) were the primary benefits 68 percent of owners received in the last 10 years from owning timberland (fig. 7, table 35). Only 3 percent of owners, holding 15 percent (1,569,200 acres) of the private timberland in Wisconsin, indicated that timber income was the primary benefit received from owning timberland. Land value increase was the primary benefit for 6 percent of owners. It is unclear if those owners sold timberland to capture the benefit of increased value, or if the increase was a "paper gain." If the increased land value represents a paper gain, at some point in the future those owners may want to capture the increase by selling some or all of their timberland. Owners who reported that an increase in land values was the primary benefit derived from owning timberland hold 8 percent (817,328 acres) of the private timberland in Wisconsin.

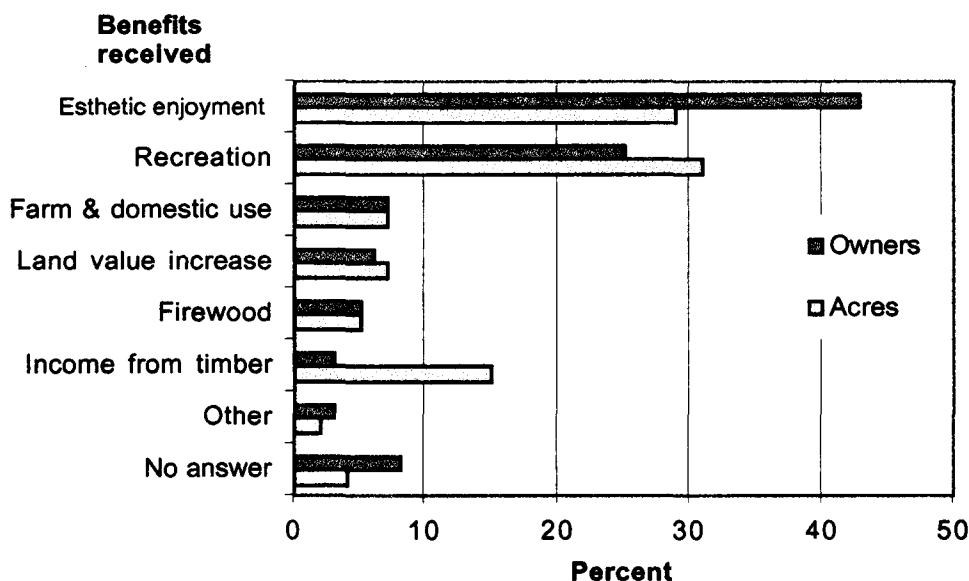


Figure 7.—Primary benefits received in last 10 years from owning timberland, Wisconsin, 1997.

### Primary Benefits Expected

Wisconsin timberland owners expect future benefits of owning timberland to be similar to those they presently receive (table 36). As in the present, recreation and esthetic enjoyment are important expected benefits while timber income ranks low. Only 2 percent of owners expect in the next 10 years that timber income will be derived from their timberland. Owners expecting timber income, however, hold 15 percent (1,668,366 acres) of the State's private timberland area. Some owners look forward to increased land value. Eight percent of owners, holding 11 percent of the timberland, expect land value increase to be a primary future benefit.

### TIMBER HARVEST ACTIVITIES

#### Timber Harvest History

Although timber production was not an important reason for owning timberland, timber harvesting was conducted by 46 percent of owners (120,150 owners) (table 17). Owners who harvested timber own 72 percent (7,809,968 acres) of the State's private timberland. The vast majority of harvesters—96

percent—are individual owners. Corporations and partnerships account for only 3 percent of the harvesters, but they hold 22 percent of the acreage owned by harvesters.

Retired owners predominate among harvesters, accounting for 28 percent of them (table 18). Although relatively active harvesters, the majority (53 percent) of retired owners have yet to harvest timber from their land. Owners whose occupations are classed as white collar make up 22 percent of the harvesters. Approximately half of white collar owners have harvested timber and half have not. Farmers make up 19 percent of harvesters. Unlike retirees and white collar owners, most farmers (67 percent) are harvesters. Many owners in other occupational groups harvest timber, but they own relatively few acres of timberland. Corporate, partnership, and other organizational owners make up only 4 percent of harvesters, but as a group they hold about one-fourth of the acreage owned by timber harvesters. Timberland owned by organizational owners, when combined with timberland owned by retired owners and farmers, accounts for two-thirds of all timberland owned by harvesters.

#### Benefits expected

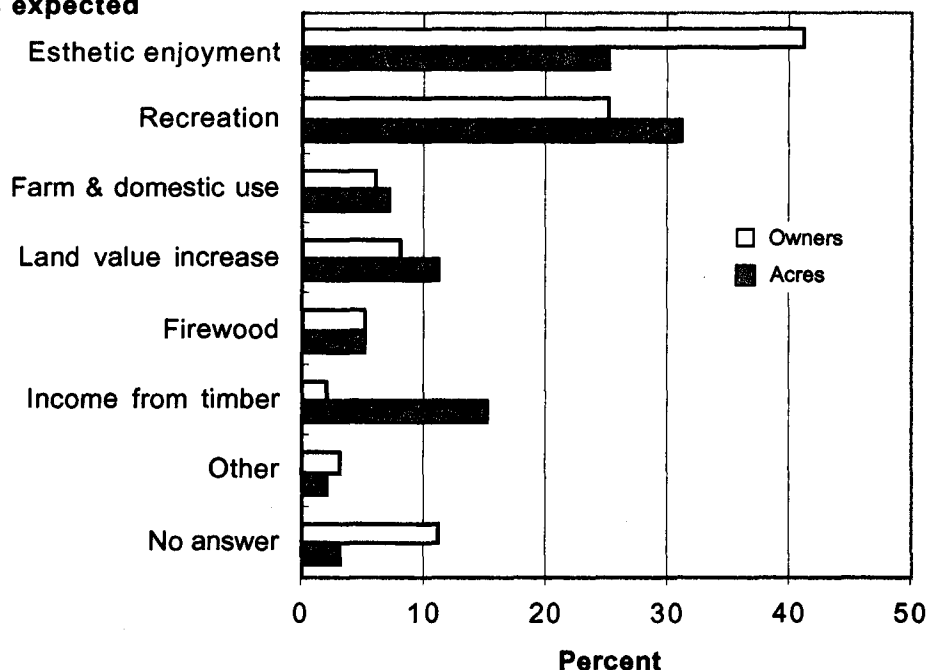


Figure 8.—Primary benefits expected in the next 10 years from owning timberland, Wisconsin, 1997.

Harvesters are fairly active—8 of every 10 harvesters have conducted a harvest within the past 7 years (table 19). Older owners are the most active harvesters, as shown in the tabulation below:

| Age of harvester<br>(years) | Percent of individual<br>harvesters |
|-----------------------------|-------------------------------------|
| Under 34                    | 2                                   |
| 35-44                       | 18                                  |
| 45-54                       | 21                                  |
| 55-64                       | 23                                  |
| 65+                         | 32                                  |
| No answer                   | 4                                   |
| Total                       | 100                                 |

### Reasons for Harvesting Timber

Harvesters generally remove timber when they feel it is mature or for their own use (table 20). It should be noted that the term "mature" is self-defined. Other owners harvest timber to improve stands. Cultural treatments, or stand improvement activities, were the most important reason to harvest for 11 percent of owners who removed timber. Owners who conducted some form of cultural treatment own an estimated 1,196,766 acres. An additional 12 percent of harvesters removed timber as part of a timber salvage operation. Although most owners of timberland ranked recreation or esthetic enjoyment as a primary benefit of owning timberland, few (1 percent) harvested timber to improve recreation or esthetic values.

The reason for harvesting timber varies by region. In the Southeastern Unit, relatively few owners harvest timber because they believe it is "mature" (table 20). Instead, harvesters in the Southeastern Unit tend to harvest for their own use, for stand improvement, or as part of a timber salvage operation. Obviously, as stands "mature" more owners may choose to harvest. In the Northwestern Unit, relatively few owners harvest timber as part of a cultural treatment operation. Although few in number, those owners control 306,610 acres, or 26 percent, of the timberland owned by harvesters in the unit. A similar situation exists in the Northeastern and Central Units. Forest industries own considerable acreage in each of these units and tend to perform cultural treatments more than other owners.

Form of ownership appears to be related to why owners harvest timber (table 21). Forest industry harvests timber primarily for two reasons—timber is mature, and for own use. Farmers and other individual owners, on the other hand, harvest for a number of reasons, but as in forest industry many harvest because timber is mature. Again, the term "mature" is self-defined. Probably, some owners believe "mature" stands are at risk of decay or other damages and will decline if not harvested. Through harvesting, owners may feel they capture the monetary value associated with "mature" stands. However, few owners profess to harvest timber because they are offered a good price or because they need money. Only 11 percent of the harvesters, controlling 9 percent of the timberland owned by harvesters, harvest timber for monetary reasons. This finding is somewhat perplexing because the prices paid for stumpage have increased rather dramatically over the past decade. For example, Stier and Hacker (2000) report that in 1989, one county forest in the Northwestern Unit sold over 19,000 cords of timber for approximately \$5 per cord. In 1994, approximately 18,000 cords of timber were sold for approximately \$15 per cord. Clearly, standing timber has become more economically valuable.

The decision to harvest involves the consideration of a number of factors, including personal values, stand condition, perceived current and future monetary value of stands, markets, and owner tenure. Most individual owners need to face the decision to harvest probably only once because of land area they own and because of forest ecology and natural histories of stands in the region. Although timber production is not their primary reason for owning the land, many owners apparently view harvesting as the best action to take when they think timber is "mature." Harvesting because stands are mature is especially prevalent in northern Wisconsin where aspen stands predominate. Aspen generally grows in even-aged stands, and pathological rotation is about 55 to 60 years. Owners who have "mature" stands probably conclude that they must either sell the timber, or see it decline.

### Products Harvested

Fuelwood is the product most often harvested—78 percent of harvesters cut fuelwood for their personal use (table 22). Fuelwood

cutters, on average, own fewer than 50 acres of timberland. They are among the one in four households in Wisconsin who burn fuelwood (May and Mace 1996). In addition to burning wood for home-heating, some burn wood in fireplaces for pleasure (May and Mace 1996). An additional 6 percent of harvesters cut fuelwood to sell. The harvesting of fuelwood probably does not adversely impact industrial wood supplies because most of the harvested fuelwood comes from non-growing-stock trees—dead trees and harvest residues, such as limbs and branches. Only about a third of the harvested fuelwood in Wisconsin comes from growing-stock trees (May and Mace 1996).

Mainly, forest industry and owners with more than 500 acres of timberland harvest saw logs and pulpwood (table 22). The harvesting of saw logs and pulpwood by forest industry is done to supply mills and is an ongoing activity. But, for individual owners, especially small-tract owners, the harvesting of saw logs or pulpwood occurs infrequently. Indeed, as size of holding increases, the proportion of owners that harvest saw logs and pulpwood increases.

### **Reasons for Not Harvesting Timber**

Owners have a variety of reasons for not harvesting timber. Among owners who have not harvested, the most prevalent reason is concern that harvesting would reduce scenery (table 23). Eighteen percent of owners have not harvested because they believe harvesting would reduce scenery. The belief that harvesting would reduce scenery corresponds closely to the primary reasons for owning timberland. The high proportion of owners holding timberland primarily for recreation and esthetic enjoyment reflects the value of scenery. An additional 16 percent of those who have not harvested feel that their timber is in a small area. Those owners hold less than 1 percent of the private timberland area in Wisconsin. Fourteen percent of those who have not harvested have not done so because of factors associated with volume or tree size. Some owners who cited volume or size as a factor in not harvesting may harvest in the future if trees increase in size to where owners think harvesting is warranted, or if market conditions are favorable for harvesting. Incidentally, only 3 percent of those who did not

harvest feel market or low prices is a reason for not harvesting. Nine percent have not harvested timber because they believe that if they did the value of the land for recreation or hunting would be reduced.

Moral or ethical reasons influence some owners not to harvest. Sixteen percent of nonharvesters are opposed to harvesting. Owners who oppose harvesting control 15 percent (454,730 acres) of the timberland owned by nonharvesters. Opposition to harvesting is most prevalent in the Southeastern Unit where more than one-half of all owners who oppose harvesting have land. Among the different groups of owners, individual owners tend to oppose harvesting more than others (table 24). Fifteen percent of the individual owners who have not harvested and 19 percent of the farmers who have not harvested are opposed to harvesting. A few owners—1 percent of the nonharvesters—have not harvested because they distrust loggers. Owners who distrust loggers hold 4 percent (118,916 acres) of the timberland owned by nonharvesters. Landowner discontent with loggers stems mostly from misunderstandings about timber price or harvesting techniques and from observations of logger activities on someone else's land (Leatherberry 1998).

### **Timber Harvest Plans**

More than half of owners have not harvested timber. Some feel strongly about not harvesting. Twenty-six percent of owners never intend to harvest timber, and they hold 1 of every 10 acres of private timberland (table 25). Most owners, however, plan to harvest. Nearly 7 of every 10 owners plan to harvest timber from their land sometime in the future. Forty-two percent of owners plan to harvest timber within the next 10 years, and they hold 64 percent (6,866,957 acres) of the private timberland in Wisconsin (fig. 8). An additional 26 percent of owners intend to harvest but are not sure when the harvest will take place; they hold 25 percent (2,695,116 acres) of the private timberland. Owners who intend to harvest hold nearly 9 of every 10 acres of private timberland in the State.

Larger tract owners are more likely to plan to harvest than smaller tract owners (table 25). Sixty-one percent of owners holding between 1 and 49 acres of timberland intend to harvest;

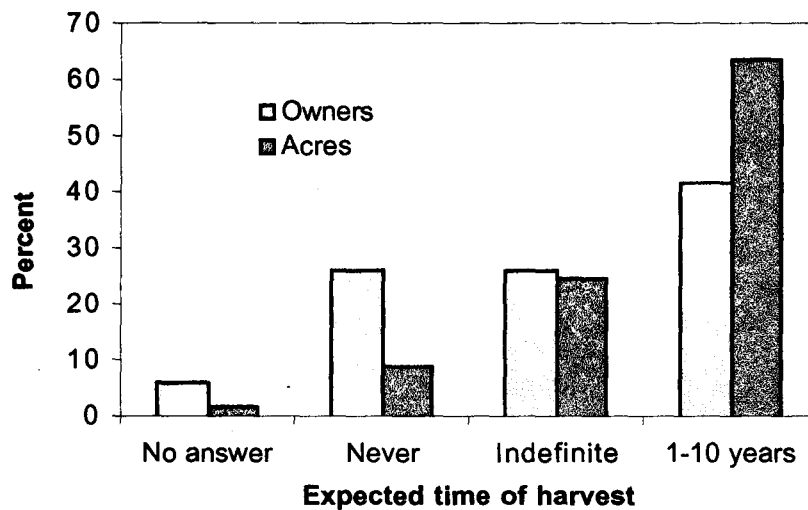


Figure 9.—*Distribution of owners and acres by intention to harvest, Wisconsin, 1997.*

the figure increases to 90 percent for the 50- to 499-acre size class and to 96 percent for owners holding more than 500 acres.

As pointed out previously, few owners profess to hold timberland for timber production. Instead, nearly half own timberland primarily for recreation and esthetic enjoyment. Among those owners, nearly three-quarters plan to harvest timber (table 26). Planning to harvest timber and owning land for recreation/esthetic reasons may appear to be incongruous. The apparent dichotomy of purpose may have several explanations. Some owners may view recreation/esthetic values and timber production as complementary—a stand managed for saw logs can provide esthetic values and recreational opportunities for much of its existence. Other owners who own larger tracts may remove timber from the more remote stands and preserve the timber near homes and favorite places. Perhaps, the dichotomy is best explained by the proclivity of owners to harvest timber when they believe it is mature.

Some owners plan to not harvest timber. Twenty-six percent (68,383) of the nonindustrial timberland owners, controlling over a million acres of timberland, expect that they will never harvest timber (table 27). Owners who expect not to harvest timber are mostly individual, nonfarm owners and are from all occupational backgrounds. However, retired owners hold the largest share of acreage

(347,046 acres) where there are no plans to harvest (table 28). Many retired owners have fixed incomes, and although they may not have plans to harvest timber, economic necessity may force some to harvest. Also, the retired owners who plan not to harvest hold only an average of 13 acres—an area usually not economical to manage for timber production.

Owners self-proclaimed as “homemakers” generally do not plan to harvest timber—85 percent of them indicated they never would harvest. However, the average size-of-holding for those owners was only 2 acres. Many are widowed. As retired owners continue to age, the group classed “homemakers” may expand and the area of timberland in the class is likely to increase.

A caveat should be observed when relying on owner's stated harvesting plans. What owners plan to do can change with time. For example, Stone (1970), who studied timber harvest behavior of landowners in the Upper Peninsula of Michigan, observed that the owners' stated interest in harvesting timber and their actual behavior did not match. Much more harvesting was done than owners' statements alone would suggest. And, property changes ownership, which can affect harvesting plans. Carpenter (1985) observed that a majority of new owners in the Upper Peninsula held different attitudes about owning timberland

than previous owners. New owners were more likely to harvest timber.

## FORESTRY MANAGEMENT ASSISTANCE

### Knowledge of Management Assistance Resources

Knowledge of management assistance resources is not universal; just over half of owners (53 percent) knew of agencies or offices they could contact for forestry management assistance (table 29). Forest industry owners, as expected, were knowledgeable about the sources of information for forestry management assistance. Nonindustrial private owners with more than 500 acres of timberland were also knowledgeable about sources to contact for management assistance. Indeed, it appears that size of holding is related to knowledge of management assistance. Among owners with more than 500 acres, only 6 percent did not know whom to contact for forestry management assistance. Conversely, among owners with less than 50 acres, 40 percent of them did not know whom to contact for forestry assistance.

About one-third of nonindustrial private owners would seek assistance from public agencies. Seventeen percent of owners would contact State employees (i.e., Department of Natural Resources). Only 4 percent of owners controlling 7 percent (712,028 acres) of the private timberland would use a private consulting forester (table 29). However, large-tract owners are more likely to contact a consulting forester and to contact multiple sources for assistance than are smaller tract owners. In general, those who would contact nongovernment foresters for assistance hold larger tracts (500 acres or more) of timberland.

### Use of Management Assistance

Forestry management assistance has been obtained by 28 percent of owners (74,480) (table 30). These owners hold 56 percent (6,091,242 acres) of the private timberland. As the size of holding increases, timberland owners are more likely to obtain management assistance (fig. 9). For instance, only 21 percent of small-tract (1-49 acres) owners have obtained assistance. Conversely, 86 percent of the nonindustrial private owners who hold more than 500 acres have requested assistance. Because logging small tracts is not

economically feasible, some small-tract owners may not use outside assistance because they do not intend to harvest.

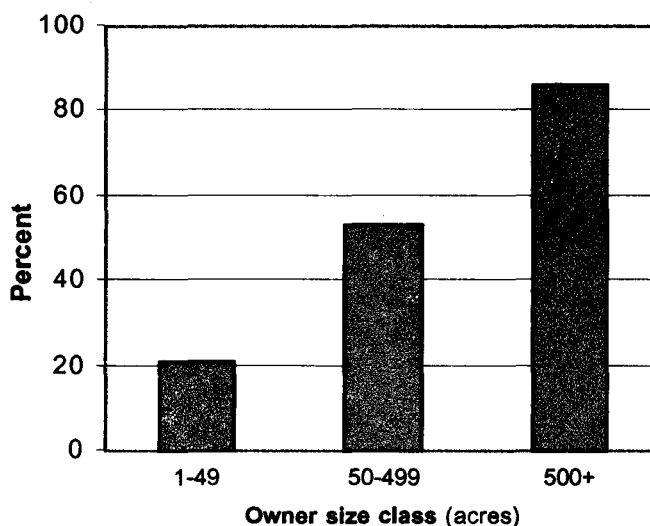


Figure 10.—Percent of nonindustrial owners obtaining forest management assistance by owner size class, Wisconsin, 1997.

The proportion of owners obtaining management assistance ranges from 17 percent of owners in the Northwestern Unit to 44 percent in the Southwestern Unit (table 31). Owners who have obtained assistance control more than 50 percent of the private timberland acres in each of the units, except the Southeastern Unit, where they control 43 percent of the private timberland.

Owners who have obtained assistance have larger holdings than owners who have not, as shown below:

| Unit         | Average size of holding |                        |
|--------------|-------------------------|------------------------|
|              | Assistance obtain       | No assistance obtained |
|              | (acres)                 |                        |
| Northeastern | 110                     | 40                     |
| Northwestern | 145                     | 28                     |
| Central      | 76                      | 26                     |
| Southwestern | 73                      | 30                     |
| Southeastern | 25                      | 14                     |
| State        | 82                      | 26                     |

The size of holding has obvious implications for the delivery of assistance to landowners. Statewide, owners who have requested assistance have an average of 82 acres of timberland. However, in the Central Unit and the two southern units, the average size of holdings for those who requested assistance is smaller than the statewide average. The relatively smaller tract size, in conjunction with the larger number of owners involved, presents a greater challenge in delivering assistance. In the Southeastern Unit, 4,000 more owners obtained assistance than in the Northwestern Unit. However, owners in the Northwestern Unit who obtained assistance have more than four times as much timberland as owners in the Southeastern Unit.

Owners who obtained forestry assistance sought help with a variety of forest related concerns (table 32). The assistance obtained by owners was generally related to forestry management or information about forestry. Some owners obtained information about wildlife, which exemplifies the strong relation between forest ownership and recreation.

In terms of obtaining assistance in the future, 31 percent of owners who have obtained forestry assistance would contact State personnel; these owners have 2,166,203 acres (table 33). Multiple sources would be used by an additional 31 percent of those who have obtained assistance. An additional 9 percent would contact a consultant forester; these owners have 483,052 acres of timberland. Not surprising, nearly half the owners (84,366 owners) who have not obtained forestry management assistance did not know whom to contact for assistance; they control 2 million acres of timberland. Among those owners who have not obtained assistance, 13 percent indicated that in the future they would contact State personnel.

#### **COMPARING OWNERS WHO HAVE HARVESTED TIMBER TO THOSE WHO HAVE NOT**

Wisconsin timberland owners are closely split between those who have harvested and those who have not. Timberland owners generally profess that timber production is not an important reason for owning timberland—only 2 percent of owners say they hold timberland primarily for that reason. Instead of timber

production, many owners are interested in recreation and esthetics. Even among timber harvesters there are strong feelings about recreation and esthetics. Many harvesters, like those who do not harvest, hold timberland for recreation or esthetic reasons (table 34). Both harvesters and those who do not harvest tend to view benefits of owning timberland similarly (table 35). For example, a significant proportion of both harvesters and non-harvesters view recreation and esthetic enjoyment as primary benefits received from the timberland they own. For some who have not harvested, land value increase is an important benefit, while fewer harvesters view land value increase as a primary benefit. Timber income is an important benefit to just 5 percent of harvesters, but those harvesters hold one-fifth of the timber owned by harvesters. Both harvesters and those who have not harvested have similar expectations about the benefits they will receive from owning timberland (table 36). Approximately two-thirds of both harvesters and those who have not harvested expect recreation and esthetic enjoyment to be important future benefits of owning timberland.

Wisconsin timberland owners, like timberland owners in other places, are motivated by multiple objectives. However, it is clear that one of their primary objectives for owning timberland is recreation and esthetic enjoyment. An obvious question is: if people hold timberland primarily for recreation and esthetic values, why do some harvest and others do not? Findings presented here suggest that a stable proportion of owners in the larger size classes, mostly nonindividual owners, regularly harvest timber. Many individual owners harvest timber because they perceive there is a biological need (i.e., mature timber) or because they need the timber for their own use. Few individual owners say they harvest timber primarily for monetary gain. Just 11 percent of harvesters cut timber because they "needed money" or were "offered a good price." Instead, most individual owners harvest because stands are "mature." Does this propensity to harvest when stands are "mature" suggest that many nonharvesters will harvest at some time in the future? Many probably will because about 7 of every 10 owners indicated they plan to harvest. While not responding solely to economic forces when harvesting, many owners apparently are not willing to forego harvest when they perceive stands are mature.

Essentially, at stand "maturity," the utility of the stand for recreation and esthetics is decreased while the economic value is maximized. At this juncture many owners decide to harvest. Stone's (1970) research supports this conjecture. He postulates that an owner eventually becomes aware of the timber value and conducts a harvest. Thus, over time, particularly as long as a forest management or pathological rotation period, most private timber would probably be available for harvest.

Obviously some factors preclude or limit the likelihood of harvest. For instance, some species may not be in demand or have a ready available market. Much of the timber harvest in Wisconsin occurs in the northern part of the State where size of holding has obvious implications for timber management. The predominance of smaller holdings in southern Wisconsin and the Central Unit may impede timber harvest. Indeed, 16 percent of owners who did not harvest indicated they did not harvest because the area they owned was too small. Further, about one-third of owners holding fewer than 50 acres of timberland indicated they would never harvest timber from their land. For some owners, moral or ethical values play a role in the decision to not harvest. Sixteen percent of those who have not harvested are opposed to harvesting. A greater proportion of owners in the southern part of the State are opposed to harvesting than in the northern part. Apparently, owners who oppose timber harvesting expect to derive greater utility from the recreational or esthetic enjoyment of their land than from income or products gained from a harvest.

Harvesters are more likely to request forestry management assistance than owners who do not harvest (table 37). Four of every 10 harvesters have requested forestry assistance and they collectively own over 5 million acres of timberland. Conversely, only 18 percent of those who have not harvested have requested forestry management assistance. For those owners requesting assistance, harvesters own an average of 103 acres, while those who have not harvested own just 41 acres of timberland.

## RECREATIONAL USE OF PRIVATE TIMBERLAND

### Recreational Use and Availability

Recreational use of timberland was reported by 7 of every 10 owners, holding 87 percent of private timberland in the State (table 38). Twenty-one percent of owners, holding 39 percent of the timberland, indicated that the public is permitted to use their land. Nearly three-fourths (73 percent) of owners, controlling 58 percent of the private timberland, do not allow the public to recreate on their timberland.

Sixty-three percent of owners personally use their land for recreation, or have family or close friends that do (table 39). Hunting is the most popular recreation activity, reported by an estimated 42 percent of owners that control 51 percent of the private timberland acreage. Hiking is also popular. Thirty-six percent of owners indicated that they, or their family or friends, hiked on the land. These owners control 42 percent of the private timberland. Birdwatching is another popular form of recreation among timberland owners. Thirty-two percent of owners holding 31 percent of the private timberland acreage birdwatch or allow their friends on their land to birdwatch. Picnicking, camping, snowmobiling, and winter sports are all important recreational activities engaged in by owners, their family, and friends, on owner's timberland. Of course, timberland can support multiple activities, and many forest-based recreation pursuits can be engaged in concurrently.

The 21 percent of owners who allow the public to use their timberland for recreation are most likely to permit snowmobiling and hunting (table 40). Snowmobiling is allowed by 6 percent of owners who hold 17 percent of the private timberland. Hunting is allowed by 5 percent of owners who hold 17 percent (1,871,736 acres) of the private timberland acreage. Owners who allow public access permit most recreational activities, but many appear hesitant to allow camping.

The more timberland owned, the more likely the owner is to permit public use of the land (table 41). For instance, only 11 percent of owners who hold between 1 and 19 acres allow

the public to recreate on their land. This is probably due to the small size of the property, much of which is associated with a residence or is part of the farm. Conversely, 53 percent of owners holding 500 or more acres permit public use. In Wisconsin, a relatively small number of owners holding large tracts of timberland allow public access, including most of the large corporate owners. Under the Managed Forest Law, owners who enroll over 80 acres of timberland must open their land to the public.

The different types of recreation that take place on private timberland indicate how diverse recreational opportunities are on Wisconsin's timberland. Many of the activities take place on the same land. However, more acreage is used for hunting than for other activities. Eighty percent of private timberland acreage (8,709,741 acres) held by 55 percent of owners is used for hunting. However, on most land where hunting occurs, the public is not allowed to hunt (table 42). Only 13 percent of owners, controlling 3,217,740 acres of timberland (30 percent of the private timberland area), allow others to hunt on the land they own. Forty-two percent of owners, controlling 51 percent of the timberland, hunt but do not allow the public to hunt on the land they own.

### **Restricting Access by Posting**

Forty-four percent of owners holding 55 percent of the private timberland acreage indicated they post their land against public entry (table 43). The percentage of timberland area posted is higher in the populated central and southern parts of Wisconsin than in the north. In the Central Unit, owners of 68 percent of the timberland indicated they post their land; in the two southern units owners of about two-thirds of the timberland said they posted. In the Northeastern Unit, 52 percent of the timberland is posted; in the Northwestern Unit, only 40 percent of the timberland is posted. The higher proportion of land posted in central and southern Wisconsin reflects the land-use activities and population expansion occurring there. It is likely that the expansion of suburbia into rural areas in southern and central Wisconsin has contributed to increased posting. In the more rural north, where posting is less prevalent, much of the land posted is probably associated with absentee

owners. Many of those owners reserve the use of their land to only family and friends. But the posted land in the region is offset by the larger tracts of forest industry timberland where public use is allowed.

Sixty-seven percent of owners who hold 500 acres or more of timberland reported that they post their land (table 44). However, these owners hold only 34 percent of the land in that class. Conversely, 33 percent of owners in this size class, controlling 61 percent of the acreage, do not post their land. In general, the small timberland holders (owners of between 1 and 9 acres) and the large timberland holders (owners of more than 500 acres) post less of their land than do owners holding between 10 and 500 acres.

### **Reasons for Posting Timberland**

The most common reason owners post their land is to prohibit access—17 percent of owners with 21 percent of the timberland post for that reason (table 45). Another important reason is to control hunting. Nine percent of owners, with 13 percent of the timberland, post to control hunting. As pointed out earlier, 20 percent of the timberland owners allow the public to use their land. But, some owners who allow public use also post their land, which suggests that just because land is posted does not mean it is not available for public use. Among owners who permit public use of their land, 44 percent also post their land. The most common reason for these owners posting their land is to prohibit access, control hunting, and control access. Owners who allow use and post their land probably do so to screen potential land users and to encourage them to use the land responsibly.

### **CONCLUSION**

Private timberland owners are a diverse group motivated by multiple objectives. However, timber production, recreation, and esthetic enjoyment are clearly important reasons for owning timberland. In terms of timber production, there are basically three types of timber harvest behavior among Wisconsin timberland owners. A relatively small body of owners hold large tracts of timberland primarily for timber production, and they harvest on a regular basis. A large body of owners hold timberland primarily for recreation or esthetic

values, but many of them harvest timber when they feel it is "mature." Those owners are not generally motivated by money to harvest. And finally, a small group of owners plan never to harvest timber.

Will the mix of owner behaviors result in a sustainable flow of both timber and nontimber services from private timberland into the future? This is an important question, one complicated by the reality that it is difficult to predict timber harvest behavior from past behavior (i.e., Stone 1970, Carpenter 1985, Bliss and Grassl 1987). This is especially applicable for nonindustrial owners. The condition of Wisconsin's forest and the kinds of harvest behaviors exhibited by Wisconsin timberland owners, however, suggest that for the near term—say 20 to 30 years out—adequate timber supply will flow from private lands. There are three prime reasons for this conclusion. First, net growth exceeds harvest in Wisconsin. Much of the growth is on young trees, as is shown in the expansion of sapling-seedling-size stands between 1983 and 1996 (Schmidt 1997). Second, owners with large holdings use their land primarily for timber production and that land base has remained fairly stable over time, even when ownership is transferred. Third, the fact that many owners harvest timber when they believe it is mature indicates that a significant acreage may be continuously available for harvest. However, for the long term—beyond 30 years—the flow of timber from private lands is not clear, especially from nonindustrial timberland. In the future, the consequence of increased numbers of smaller holdings may have an adverse affect on the flow of timber because owners of smaller holdings are less likely to harvest timber. Also, economies of scale make forestry management more difficult for small landowners. Timber supply may be adversely affected by a lack of forestry management on individual private lands. In our study, more than one-third of the State's private timberland owners did not know about sources that could provide forestry management assistance. Smaller tract owners generally have little knowledge of technical forestry management, and few seek assistance or advice on managing their timberland.

Because owners hold timberland for seemingly divergent reasons (i.e., timber production versus recreation and esthetics), incentive programs must be effectively targeted. Kline *et*

*al.* (2000) note that programs that offer cost-sharing or technical assistance to increase timber production may have only limited success if a significant proportion of owners do not possess strong timber objectives. Programs with the greatest potential for success target those owners whose objectives are most consistent with program goals. Therefore, present and near term timber production incentives should be directed to the larger tract owners because they are more likely to harvest timber. Providing individual assistance to many small-tract owners who are subjected to diseconomies associated with harvesting small tracts may not be a productive use of limited funds and resources. However, to assist small landholders interested in forestry management, public agencies and forest products industries should encourage and promote cooperative, integrated forestry management among smaller tract holders. The Wisconsin Woodland Owner Association has been effective in promoting forestry management among smaller timberland owners. Further, in the future, new harvesting technologies may lead to the efficient harvesting of smaller holdings.

Timberland is an important source of recreational opportunities. Most owners hold timberland primarily for recreation or esthetic enjoyment. Only about one-quarter of owners allow the public to use their land for recreation; the remaining owners exclude the public from their land. In general, however, larger tract owners tend to permit public access to their land. Larger tract owners are more likely to participate in State tax incentive programs that require owners to allow public access to the land. The incidences of posting to restrict access to timberland are greatest in central and southern Wisconsin. In these areas, farmers historically owned most timberland, and they traditionally permitted others access to their land. However, farmers have been divesting their holdings at an alarming rate. For example, in 1956, farmers owned 6,372,000 acres of timberland (Stone and Thorne 1961). By 1997, farmer-owned timberland had declined to 1,467,750 acres. Transfer of farms to nonfarmers leads not only to less harvesting, but also to fragmentation of tracts. Pressure to divide timberland into smaller holdings is increasing due to expanding residential and recreational developments. These smaller tract owners apparently perceive significant opportunity costs associated with

allowing public access to their land. As a consequence, posting and use restrictions are likely to increase.

### LITERATURE CITED

- American Forest and Paper Association. 1997. **Wisconsin forest and paper industry: economic impact statement.** Washington, DC. (Brochure)
- Barrows, Richard; Rosner, Monroe. 1982. **The property tax and forestry policy.** Econ. Issues 71. Madison, WI: Department of Agricultural Economics, College of Agriculture and Life Sciences, University of Wisconsin. 4 p.
- Bliss, John C.; Grassl, Mark J. 1987. **Predicting timber harvests on private forests in Southwest Wisconsin.** Northern Journal of Applied Forestry. 3(4):152-154.
- Carpenter, Eugene. 1985. **Ownership change and timber supply on nonindustrial private forest land.** Res. Pap. NC-265. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 14 p.
- Hackett, Ronald L.; Whipple, James W. 1997. **Wisconsin timber industry—an assessment of timber product output and use, 1994.** Resour. Bull. NC-187. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 73 p.
- Kline, Jeffery D.; Alig, Ralph J.; Johnson, Rebecca L. 2000. **Fostering the production of nontimber services among forest owners with heterogeneous objectives.** Forest Science. 46(2): 302-311.
- Kotar, John; Kovach, Joseph A.; Brand, Gary. 1999. **Analysis of the 1996 Wisconsin statistics by habitat type.** Gen. Tech. Rep. NC-207. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 166 p.
- Leatherberry, Earl. 1998. **Distrust of loggers could adversely affect timber supply: what alienated landowners and what to do about it.** Timber Producer. August (8): 44, 46, 49.
- May, Dennis M.; Mace, Terry. 1996. **Residential fuelwood consumption and production in Wisconsin, 1994.** Resour. Bull. NC-172. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 29 p.
- Roberts, John C.; Thusty, Wayne G.; Jordahl, Harold C. 1986. **The Wisconsin private non-industrial woodland owner: a profile.** Occas. Pap. Ser. 19. Madison, WI: University of Wisconsin, Cooperative Extension Service, Department of Urban and Regional Planning. 160 p.
- Roussopoulos, Sue M.; Leatherberry, Earl C. 1992. **Wisconsin's timberland plantations, 1983.** Resour. Bull. NC-137. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 24 p.
- Sampson, Neil; DeCoster, Lester. 2000. **Forest fragmentation, implications for sustainable private forests.** Journal of Forestry. 98(3): 4-8.
- Schmidt, Thomas L. 1997. **Wisconsin forest statistics, 1996.** Resour. Bull. NC-183. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 150 p.
- Stier, Jeff; Hacker, Jan. 2000. **Wisconsin forest industry facts.** Woodland Management. 21(1): 16.
- Stone, Robert N.; Thorne, Harry W. 1961. **Wisconsin's forest resources.** Stn. Pap. 90. St. Paul, MN: U.S. Department of Agriculture, Forest Service, Lake States Forest Experiment Station. 52 p.
- Stone, Robert N. 1970. **A comparison of woodland owner intent with woodland practice in Michigan's Upper Peninsula.** St. Paul, MN: University of Minnesota. Ph.D. dissertation. 115 p.
- U.S. Bureau of the Census. 1997. **Statistical Abstract of the United States.** In: Section 14, table 722: Income, expenditures, and wealth: 468.
- Wisconsin Statutes. **Chapter 77, Subchapter 1. Taxation of forest croplands.** (Unofficial text from Wisconsin Statutes database at <http://www.legis.state.wi.us/rsb/Statutes.>)

## APPENDIX

### Study Methods

The sampling scheme used in the survey of Wisconsin timberland owners was derived from the sampling design used in the Wisconsin forest inventory of 1996 (see Schmidt 1997). Sampling intensity was increased from a single intensity to a double intensity level. The goal was to provide a sampling error of less than 10 percent for the total timberland by county from the increased sampling intensity. Such sampling was made possible through the cooperation, assistance, and additional funding provided by the State of Wisconsin.

In this study, owners surveyed were selected from a sample of randomly distributed points of timberland on aerial photographs of the entire State of Wisconsin. The exact ground location of selected timberland points on the aerial photographs was determined, and the owner of the land where the point occurred was identified from legal descriptions at county land departments or other reliable sources. A total of 9,165 timberland field plots were identified in Wisconsin. These were systematically distributed within each of the five survey units. The name and mailing address of plot owners were arranged by unit and plot number, and were recorded into a file of owners.

Timberland plots that were publicly owned were removed from the file. The resulting file of owners served as the survey sample base. The file of private timberland owners, however, contained duplicate names and unusable addresses. Many large ownerships were identified that had multiple plot locations. As a result, it was necessary to define the survey sample base further. All duplicate names and addresses were identified. The first identified listing for an owner remained in the file and all other listings for the same owner were removed, leaving a single entity for multiple listings. Also, all addresses deemed unusable were removed. The final definition of the survey population included those 3,171 private timberland owners in Wisconsin, where forest inventory plots were established on timberland they owned. A continuous listing of owner names and addresses was arranged by survey unit, and a questionnaire was sent to each owner.

The questionnaire was developed from ownership studies done in the Northeastern States by Thomas Birch, and was revised to accommodate unique Wisconsin data requirements. A copy of the questionnaire is included in the Appendix. A questionnaire was mailed to owners with an enclosed postage-paid, addressed return envelope. A cover letter explaining the purpose of the study was mailed with the questionnaire to each selected owner; those who did not respond in approximately 3 weeks received a second letter and questionnaire. To check for nonresponse bias, a sample of owners who did not reply to the mail questionnaire was randomly selected from each unit to be interviewed over the phone using a modified version of the mail questionnaire. Analysis of responses from the 45 completed phone interviews did not reveal a nonrespondent bias, and those respondents are included in the final data tabulations.

After the initial mailing and one mail followup, 1,754 questionnaires were returned. Of the returned questionnaires, 414 were not usable primarily because the owner had either moved and could not be located, had died, had sold the land, or had returned the questionnaire without answers. These owners were removed from the sample base. Therefore, the information presented is based on the responses of 1,340 owners representing a 49-percent response rate when unusable replies are excluded. The findings from the sample population were statistically expanded to estimate the total population of private timberland owners and the acreage they own in Wisconsin. Responses to the questionnaire provided the basis for the estimates presented in this report. The design of the study is land oriented, and the probability that a particular forest ownership would be sampled depended on the rate of sampling and the acreage of timberland owned.

### Estimation Procedures

The estimate of total acreage of timberland in private ownership was obtained from the forest resources inventory. The area of timberland in large acreage ownerships was then subtracted to form a separate stratum. The remaining private timberland area in each unit was divided by the number of small acreage field plots represented by the remaining valid

questionnaires to determine the area represented by each plot.

Since the sampling scheme is area-based, there is a low probability of inclusion for owners of small parcels of timberland. To estimate the total number of ownership units in Wisconsin, it was necessary to weigh the number of ownership units obtained in the sample. The procedure can be stated as:

$$N = \frac{T_p}{N_r} \sum \frac{1}{A_i}$$

Where:

- N = estimated number of private ownership units in the sampling strata.
- T<sub>p</sub> = the acres of timberland in the sampling strata.
- N<sub>r</sub> = number of respondents in the sampling strata.
- A<sub>i</sub> = acres owned by individual respondents.

The N then equals the estimated number of private ownership units in the State or unit. This is an unbiased estimate of the total number of ownership units that hold timberland in Wisconsin. Owners having more than one survey plot on their land were sent only one questionnaire, and their response was weighed proportional to the acreage they own. The private timberland base and number of private timberland owners in each Forest Survey Unit in Wisconsin are shown below:

| Unit         | All private ownerships |               |
|--------------|------------------------|---------------|
|              | (acres)                | (number)      |
| Northeastern | 2,432,300              | 36,918        |
| Northwestern | 3,165,700              | 70,661        |
| Central      | 2,394,900              | 61,749        |
| Southwestern | 1,888,200              | 38,149        |
| Southeastern | 930,800                | 54,757        |
|              | <hr/> 10,811,900       | <hr/> 262,234 |

Data were tabulated with the cooperation of the Forest Inventory and Analysis Program of USDA Forest Service's Northeastern Research Station under the direction of Thomas Birch (deceased).

### Sampling Errors

It is important to have a measure of the variation associated with the estimate shown in the tabulation because every owner and every acre were not sampled. The data presented are estimated. A measure of the reliability of an estimate based on the sample is given by sampling error. Sampling errors were calculated for the estimated number of timberland owners and acreage of timberland. The sampling error for the number of acres of timberland in private ownership is calculated as part of the forest inventory and is designed to achieve a national standard of plus or minus 3 percent at a million acres of timberland. Because this study has a much smaller sample size than the normal forest inventory, sampling errors rise rapidly for smaller areas of timberland.

Because this survey was conducted using a land-area sample, the estimates of area have smaller sampling errors than the estimates of number of owners. Estimates for the State as a whole are the most reliable (having the smallest sampling errors in percent), followed by units. The inclusion of small timberland parcels (fewer than 10 acres) in the survey substantially increases the sampling error for the estimated number of owners. Sampling errors appear in some tables of this report and are presented for each unit. The sampling errors (in percent) are shown in the tabulation on the top of the next page.

| <b>Survey Unit</b> | <b>Estimates of<br/>acres of private<br/>timberland</b> | <b>Estimates of<br/>number of<br/>owners of private<br/>timberland</b> | <b>Estimates of the<br/>number of<br/>owners holding<br/>10 or more acres</b> |
|--------------------|---------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Northeastern       | 0.8                                                     | 10.0                                                                   | 7.6                                                                           |
| Northwestern       | 0.7                                                     | 15.0                                                                   | 5.7                                                                           |
| Central            | 0.6                                                     | 8.5                                                                    | 6.4                                                                           |
| Southwestern       | 0.6                                                     | 18.4                                                                   | 6.8                                                                           |
| Southeastern       | 0.4                                                     | 14.1                                                                   | 7.4                                                                           |
| All Survey Units   | 0.3                                                     | 6.2                                                                    | 3.0                                                                           |

## COPY OF QUESTIONNAIRE

NC FOREST EXPERIMENT STATION  
FOREST SERVICE  
U.S. DEPT. OF AGRICULTURE

Form Approved  
OMB No. 0596-0078  
Expires: 6-30-97

State \_\_\_\_\_  
County \_\_\_\_\_  
Plot \_\_\_\_\_

### NORTH CENTRAL WOODLAND OWNERSHIP STUDY

THIS SURVEY IS VOLUNTARY AND THERE ARE NO PENALTIES FOR REFUSING TO ANSWER ANY QUESTIONS. BECAUSE IT WOULD INVOLVE A TREMENDOUS COST TO THE TAXPAYERS WE ARE UNABLE TO CONTACT ALL WOODLAND OWNERS. THEREFORE, WE TAKE A SMALL BUT REPRESENTATIVE SAMPLE OF WOODLANDS, ONE OF WHICH HAPPENS TO BE YOURS. SINCE YOU REPRESENT HUNDREDS OF OTHER WOODLAND OWNERS, YOUR COOPERATION IS IMPORTANT TO MAKE THE SURVEY RESULTS COMPREHENSIVE, ACCURATE, AND TIMELY. THANK YOU.

Please complete the following questions. Where actual records are not available please use your best estimate. Please be assured your answers will be strictly confidential, only statistical tabulations will be published. If you do not now own woodland please answer question 1 and return the questionnaire.

1. In what states do you own land?

State

Total  
acres

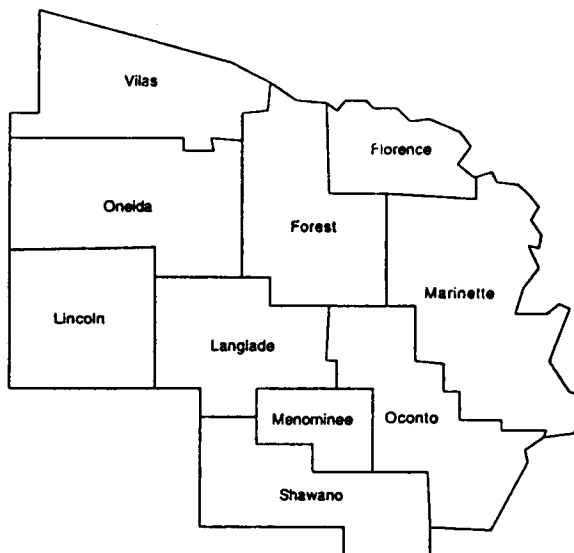
Acres\*  
wooded

---

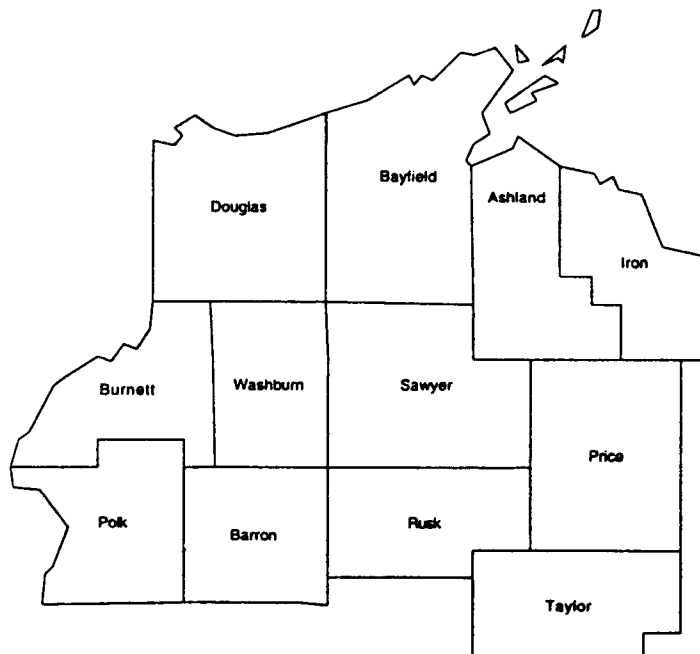
\*Include idle fields and pastures with young trees.

2. Of your woodland in Wisconsin, how much is in each of the following areas?

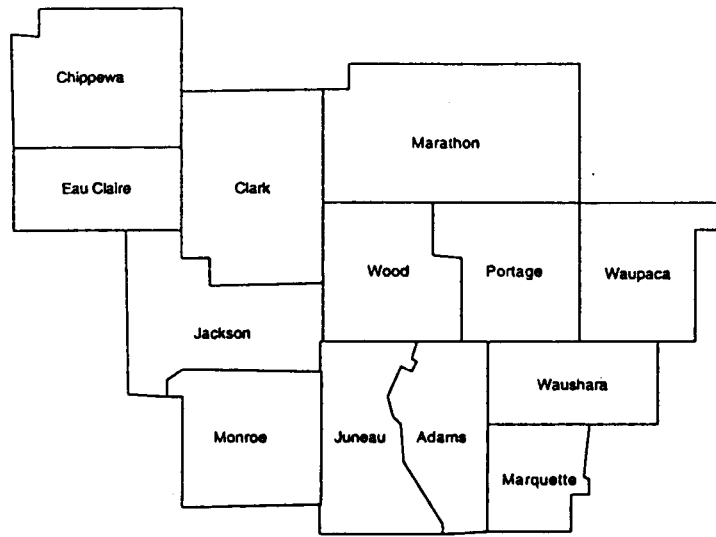
a. Northeast Wisconsin: Acres \_\_\_\_\_ or Percent \_\_\_\_\_



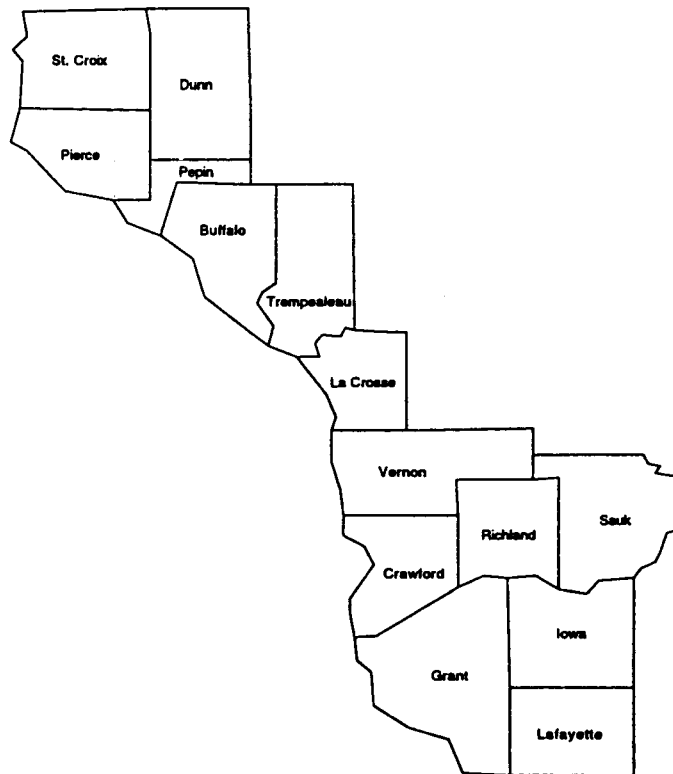
b. Northwest Wisconsin: Acres \_\_\_\_\_ or Percent \_\_\_\_\_



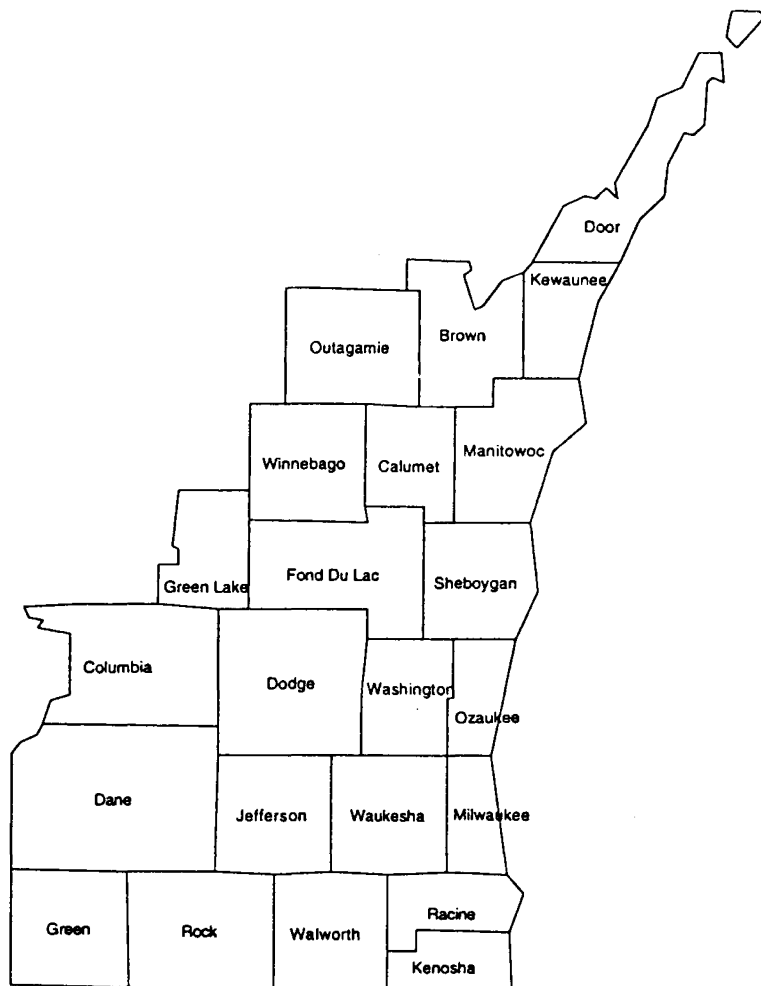
c. Central Wisconsin: Acres \_\_\_\_\_ or Percent \_\_\_\_\_



d. Southwest Wisconsin: Acres \_\_\_\_\_ or Percent \_\_\_\_\_



e. Southeast Wisconsin: Acres \_\_\_\_\_ or Percent \_\_\_\_\_



3. How many individual tracts or parcels of woodland do you now own?

Number \_\_\_\_\_

4. In what year did you first acquire woodland? (Whether or not you still own the first tract you acquired.) Year \_\_\_\_\_

How much woodland have you acquired in the last 15 years? Acres \_\_\_\_\_

How much woodland have you disposed of (sold or deeded to others) in the last 15 years? Acres \_\_\_\_\_

5. In which of the following ownership categories does the major portion of your woodland holding fall?

Check one

1. \_\_\_\_\_ Individual (including joint husband and wife and family ownerships other than family corporations)
2. \_\_\_\_\_ Partnership
3. \_\_\_\_\_ Corporate
4. \_\_\_\_\_ Club or association
5. \_\_\_\_\_ Other (please specify) \_\_\_\_\_

6. If your ownership is connected with a business or association, what is the nature of the organization?

Check one

1. \_\_\_\_\_ Forest industry (sawmill, pulpmill, etc.)
2. \_\_\_\_\_ Farm
3. \_\_\_\_\_ Industrial business (manufacturing, mineral extraction, etc.)
4. \_\_\_\_\_ Real estate
5. \_\_\_\_\_ Non-industrial business (retail, sales, service industry, etc.)
6. \_\_\_\_\_ Sport/recreation club or association
7. \_\_\_\_\_ Public utility
8. \_\_\_\_\_ Other (please specify) \_\_\_\_\_

7. What is the approximate road mileage from your primary residence to your nearest and farthest tract of woodland? (For businesses or organizations consider primary residence to mean nearest place of business.)

Miles to the nearest tract Miles \_\_\_\_\_

(Enter zero if you live on the tract.)

Miles to farthest tract Miles \_\_\_\_\_

8. Have you been approached to sell all or part of your woodland in the last five years? 1. All \_\_\_\_\_ 2. Part \_\_\_\_\_ 3. No \_\_\_\_\_

Have you been approached to sell trees in the last five years?

1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

9. Have trees been harvested from your land, either by you personally or by someone else, during the time you have owned your woodland?

Yes \_\_\_\_\_ Year of the most recent harvest \_\_\_\_\_

No \_\_\_\_\_ IF TREES HAVE NOT BEEN HARVESTED FROM YOUR LAND, SKIP TO QUESTION 17 ON PAGE 7.

10. During the last 15 years, in what years have trees been cut from your land either by yourself, or by someone else for your personal use (i.e. fuelwood, fence posts, etc.) or for wood industry use (sawlogs, pulpwood, etc.)? Please complete the following table. Check as many as apply.

| Year      | Personal use | Industry use | Both |
|-----------|--------------|--------------|------|
| All years |              |              |      |
| 1995-1996 |              |              |      |
| 1993-1994 |              |              |      |
| 1991-1992 |              |              |      |
| 1989-1990 |              |              |      |
| 1987-1988 |              |              |      |
| 1985-1986 |              |              |      |
| 1983-1984 |              |              |      |
| 1981-1982 |              |              |      |

11. During the cutting, what products were harvested?

Check as many as apply

1. \_\_\_\_\_ Fuelwood for your own use or for the use of friends
2. \_\_\_\_\_ Other products for personal use (fence posts, lumber, etc.)
3. \_\_\_\_\_ Fuelwood for sale
4. \_\_\_\_\_ Sawlogs for sale
5. \_\_\_\_\_ Pulpwood for sale
6. \_\_\_\_\_ Posts, poles and pilings for sale
7. \_\_\_\_\_ Christmas trees for sale
8. \_\_\_\_\_ Other products (please specify) \_\_\_\_\_
9. \_\_\_\_\_ Don't know what products were harvested

12. Before trees were cut from your land, did you have an opportunity to visit a logging operation? 1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

After the cutting, were you satisfied with the condition of the area?

1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

If you sold trees, were you satisfied with the price you received?

1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

13. For the harvests in the last 15 years or the most recent harvest before then, how were the trees chosen to be cut?

|                                                             | <u>Check as many as apply</u> |                                    |
|-------------------------------------------------------------|-------------------------------|------------------------------------|
|                                                             | <u>Cut for own use</u>        | <u>Cut for wood using industry</u> |
| Preselected marked trees were cut                           | 1. _____                      | 1. _____                           |
| Trees over a minimum diameter were cut                      | 2. _____                      | 2. _____                           |
| All or nearly all of the trees on a specified area were cut | 3. _____                      | 3. _____                           |
| Trees were cut to clear the land for another use            | 4. _____                      | 4. _____                           |
| The logger selected the trees as he cut                     | 5. _____                      | 5. _____                           |
| Other (please specify) _____                                | 6. _____                      | 6. _____                           |
| Don't know what method was used to select the trees         | 7. _____                      | 7. _____                           |

14. For the harvests in the last 15 years or the most recent harvest before then, who was most responsible for determining which particular trees would be cut?

|                        | <u>Check as many as apply</u> |                                       |
|------------------------|-------------------------------|---------------------------------------|
|                        | <u>Timber for own use</u>     | <u>Timber for wood using industry</u> |
| Landowner              | 1. _____                      | 1. _____                              |
| Forester               | 2. _____                      | 2. _____                              |
| Friend or neighbor     | 3. _____                      | 3. _____                              |
| Logger or timber buyer | 4. _____                      | 4. _____                              |

15. Why were trees cut from your land? (Please rank as many as apply with number 1 the most important reason, number 2 the next most important reason and so on.)

| <u>Rank</u> |                                                                |
|-------------|----------------------------------------------------------------|
| 1. _____    | Felt trees were mature                                         |
| 2. _____    | Offered a good price                                           |
| 3. _____    | Land clearing                                                  |
| 4. _____    | Needed money                                                   |
| 5. _____    | Needed wood for own use                                        |
| 6. _____    | Trees harvested for company use (forest industry only)         |
| 7. _____    | Salvage of trees damaged by insects, disease, fire or weather  |
| 8. _____    | To improve wildlife habitat                                    |
|             | If so, for what species of wildlife _____                      |
| 9. _____    | To improve the view or the scenic quality of the area          |
| 10. _____   | To improve recreation opportunities                            |
| 11. _____   | Forest improvement--thinning, weeding, cull tree removal, etc. |
| 12. _____   | To be eligible for preferential forest land tax treatment      |
| 13. _____   | Other (please specify) _____                                   |

16. Has the harvested area remained stocked with trees or been reforested?

1. \_\_\_\_\_ Yes, include leaving site to reforest itself
2. \_\_\_\_\_ No

If yes, what practices or methods were used to keep the area forested?

Check as many as apply

1. \_\_\_\_\_ Left mature seed trees standing on the site
2. \_\_\_\_\_ Prepared seed bed using heavy machinery
3. \_\_\_\_\_ Controlled competing vegetation using fire or herbicide
4. \_\_\_\_\_ Planted seedlings or dispersed seed by hand or mechanically
5. \_\_\_\_\_ Made sure area was stocked with younger trees prior to harvest
6. \_\_\_\_\_ Other reforestation method (please specify) \_\_\_\_\_
7. \_\_\_\_\_ No action taken, left area to reforest itself
8. \_\_\_\_\_ Don't know

17. If trees have not been cut from your land, why not? (Please rank with number one the most important reason and number two the next most important reason and so on.)

Rank

1. \_\_\_\_\_ No market or prices too low
2. \_\_\_\_\_ Trees are too small
3. \_\_\_\_\_ Trees are of too low quality
4. \_\_\_\_\_ Scenery would be reduced
5. \_\_\_\_\_ Value of the land for recreation or hunting would be reduced
6. \_\_\_\_\_ Distrust of loggers
7. \_\_\_\_\_ Opposed to or uninterested in cutting trees
8. \_\_\_\_\_ Not enough volume to make harvesting worthwhile
9. \_\_\_\_\_ Not enough area to make harvesting worthwhile
10. \_\_\_\_\_ Insufficient knowledge of what trees to sell or how to sell
11. \_\_\_\_\_ Another reason (please specify) \_\_\_\_\_

18. Do you plan to cut trees or harvest non-wood products (maple sap, Christmas trees, etc.) from your land for your personal use or for sale?

|                               | <u>Wood for</u><br><u>own use</u><br>(Check one) | <u>Wood for</u><br><u>sale</u><br>(Check one) | <u>Non-wood</u><br><u>products</u><br>(Check one) |
|-------------------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
| In the next 10 years?         | 1. _____                                         | 4. _____                                      | 7. _____                                          |
| Possibly at some future date? | 2. _____                                         | 5. _____                                      | 8. _____                                          |
| Never plan to harvest?        | 3. _____                                         | 6. _____                                      | 9. _____                                          |

19. What percent, if any, of your woodland do you feel you would never cut trees from? Percent \_\_\_\_\_

Why would you not cut trees from this land? (Please rank with number one the most important reason and number two the next most important reason and so on.)

Rank

1. \_\_\_\_\_ No market or prices too low
2. \_\_\_\_\_ Trees are too small
3. \_\_\_\_\_ Trees are of too low quality
4. \_\_\_\_\_ Scenery would be reduced
5. \_\_\_\_\_ Value of the land for recreation or hunting would be reduced
6. \_\_\_\_\_ Distrust of loggers
7. \_\_\_\_\_ Opposed to or uninterested in cutting trees
8. \_\_\_\_\_ Not enough volume to make harvesting worthwhile
9. \_\_\_\_\_ Not enough area to make harvesting worthwhile
10. \_\_\_\_\_ Insufficient knowledge of what trees to sell or how to sell
11. \_\_\_\_\_ Another reason (please specify) \_\_\_\_\_

20. Have you ever sought advice or assistance in managing your woodland?

1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

(If you answered yes above, please check the kinds of help you sought.)

Check as many as apply

1. \_\_\_\_\_ Information about forestry
2. \_\_\_\_\_ Help with tree planting
3. \_\_\_\_\_ Forest management assistance
4. \_\_\_\_\_ Information about wildlife
5. \_\_\_\_\_ Help in selling trees or other forest products
6. \_\_\_\_\_ Help with insect or disease
7. \_\_\_\_\_ Information about tax incentive programs
8. \_\_\_\_\_ Information about forest recreation
9. \_\_\_\_\_ Other (please specify) \_\_\_\_\_

21. What office, agency, or individual would you contact for forestry help or advice? (If you don't know, please check "Don't know.")

Check one

1. \_\_\_\_\_ Private consulting forester or wildlife biologist
2. \_\_\_\_\_ Industrial forester
3. \_\_\_\_\_ State employee (forester or wildlife biologist)
4. \_\_\_\_\_ Extension Service
5. \_\_\_\_\_ Natural Resources Conservation Service (formerly SCS)
6. \_\_\_\_\_ Other (please specify) \_\_\_\_\_
7. \_\_\_\_\_ Don't know

22. How did you become aware of the existence of technical forestry assistance?

Check as many as apply

1. \_\_\_\_\_ Newspaper article
2. \_\_\_\_\_ Magazine article
3. \_\_\_\_\_ Radio
4. \_\_\_\_\_ Television
5. \_\_\_\_\_ State employee (forester or wildlife biologist)
6. \_\_\_\_\_ Extension Service
7. \_\_\_\_\_ A friend or neighbor
8. \_\_\_\_\_ Other (please specify) \_\_\_\_\_
9. \_\_\_\_\_ Don't know

23. Is there a written forestry or wildlife management plan for your property?

1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

If yes, who prepared the plan?

1. \_\_\_\_\_ I prepared the plan
2. \_\_\_\_\_ Other (please specify) \_\_\_\_\_

24. What types of forestry assistance would you be willing to pay for?

Please specify \_\_\_\_\_

25. Why do you own woodland? (Please rank with number 1 the most important, number 2 the next most important and so on.)

Rank

1. \_\_\_\_\_ Land investment (hope to sell all or most of my woodland at a profit)
2. \_\_\_\_\_ Recreation (hunting, camping, fishing, bird watching, etc.)
3. \_\_\_\_\_ Timber production (growing timber or other forest products for sale)
4. \_\_\_\_\_ Farm or domestic use (having the woods as a source of timber for my own use; e.g., firewood, fence posts, etc.)
5. \_\_\_\_\_ Enjoyment of owning "green space"
6. \_\_\_\_\_ Part of the farm (woodland is the untillable part of the farm and serves no useful function in the farm operation)
7. \_\_\_\_\_ Woodland is part of my residence
8. \_\_\_\_\_ For an estate to pass on to my children
9. \_\_\_\_\_ Other (please specify) \_\_\_\_\_

26. Which of the following do you feel were the most important benefits you derived from your woodland during the last 10 years? (Please rank these benefits in order of importance, with number 1 the most important.)

Rank

1. \_\_\_\_\_ Increase in land value (investment)
  2. \_\_\_\_\_ Recreation (hunting, camping, fishing, bird watching, etc.)
  3. \_\_\_\_\_ Timber production
  4. \_\_\_\_\_ Farm or domestic use
  5. \_\_\_\_\_ Enjoyment of woods, wildlife, and "green space"
  6. \_\_\_\_\_ Firewood
  7. \_\_\_\_\_ Other (please specify) \_\_\_\_\_
- 

27. Which of the following do you feel will be the most important benefits you expect to derive from your woodland during the next 10 years? (Please rank these benefits in order of importance, with number 1 the most important.)

Rank

1. \_\_\_\_\_ Increase in land value (investment)
  2. \_\_\_\_\_ Recreation (hunting, camping, fishing, bird watching, etc.)
  3. \_\_\_\_\_ Timber production
  4. \_\_\_\_\_ Farm or domestic use
  5. \_\_\_\_\_ Enjoyment of woods, wildlife, and "green space"
  6. \_\_\_\_\_ Firewood
  7. \_\_\_\_\_ Other (please specify) \_\_\_\_\_
- 

28. Does your woodland contain or is it adjacent to a:

Check all that apply

1. \_\_\_\_\_ Lake (10 acres or larger)
2. \_\_\_\_\_ Stream or river
3. \_\_\_\_\_ Wetland (swamp or marsh)
4. \_\_\_\_\_ Pond (less than 10 acres)
5. \_\_\_\_\_ Public road

29. Is your woodland used for recreational purposes?

1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

(If you answered yes above, indicate what activities are permitted and by whom.)

Check as many as apply

Family, friends  
or employees only

General  
public

- |          |          |                               |
|----------|----------|-------------------------------|
| 1. _____ | 1. _____ | Hiking                        |
| 2. _____ | 2. _____ | Picnicking                    |
| 3. _____ | 3. _____ | Camping                       |
| 4. _____ | 4. _____ | Hunting                       |
| 5. _____ | 5. _____ | Fishing                       |
| 6. _____ | 6. _____ | Snowmobiling and trail biking |
| 7. _____ | 7. _____ | Winter sports                 |
| 8. _____ | 8. _____ | Bird watching                 |
| 9. _____ | 9. _____ | Other (please specify) _____  |

30. Is your woodland posted?

1. Yes \_\_\_\_\_ 2. No \_\_\_\_\_

(If yes, what is the primary reason you posted?)

Check one

- |          |                                                                           |
|----------|---------------------------------------------------------------------------|
| 1. _____ | Past abuse of the property (littering, damage to fences, etc.)            |
| 2. _____ | To protect the safety of residents and property                           |
| 3. _____ | To protect the owner from liability                                       |
| 4. _____ | To control hunting (I wish to know who is hunting on my land and/or when) |
| 5. _____ | To prohibit hunting (I do not want any hunting on my land)                |
| 6. _____ | To control access (I wish to know who is on my land)                      |
| 7. _____ | To prohibit access (I do not want uninvited persons on my land)           |
| 8. _____ | Other (please specify) _____                                              |

31. Do you or any member of your household subscribe to or receive any of the following periodicals?

Check as many as apply

- |           |                                                                               |
|-----------|-------------------------------------------------------------------------------|
| 1. _____  | American Forests                                                              |
| 2. _____  | Audubon Magazine                                                              |
| 3. _____  | Wisconsin Agriculturist                                                       |
| 4. _____  | Woodland Management                                                           |
| 5. _____  | Wisconsin Trails                                                              |
| 6. _____  | Wisconsin Natural Resources                                                   |
| 7. _____  | Country Today                                                                 |
| 8. _____  | Sierra                                                                        |
| 9. _____  | Wisconsin Outdoors                                                            |
| 10. _____ | Wisconsin Sportsman                                                           |
| 11. _____ | We don't receive any of the above magazines                                   |
| 12. _____ | Any other periodicals similar to those listed above<br>(please specify) _____ |

32. Please indicate, by circling the appropriate letter, whether you agree or disagree with each of the following statements made by other forest-land owners. If you feel you don't know, please circle the letter C "no opinion."

A. Strongly disagree  
B. Disagree

C. No opinion

D. Agree  
E. Strongly agree

|     |   |   |   |   |   |                                                                                                                             |
|-----|---|---|---|---|---|-----------------------------------------------------------------------------------------------------------------------------|
| 1.  | A | B | C | D | E | Protecting forests from fire, insects, and disease is a state forestry job.                                                 |
| 2.  | A | B | C | D | E | Management of forest land for wildlife and recreation reduces the value of the land for timber production.                  |
| 3.  | A | B | C | D | E | Lower taxes on forested land would not influence me to keep my land forested.                                               |
| 4.  | A | B | C | D | E | The trees near my house are valuable for shade and to provide wildlife cover.                                               |
| 5.  | A | B | C | D | E | I'm willing to pay for help to make better management decisions on my forest land.                                          |
| 6.  | A | B | C | D | E | The country is being denuded. One must do something to preserve the forest land.                                            |
| 7.  | A | B | C | D | E | Owners who manage their forest land should pay lower property taxes.                                                        |
| 8.  | A | B | C | D | E | More facilities that can use low grade or poor quality wood for energy are needed.                                          |
| 9.  | A | B | C | D | E | I don't believe in wilderness areas; I believe in some form of productivity for all forest land.                            |
| 10. | A | B | C | D | E | It doesn't make any difference whether I pay an annual tax on standing timber or a single tax when the timber is harvested. |
| 11. | A | B | C | D | E | I purchased my forest land for investment to leave alone and sell later.                                                    |
| 12. | A | B | C | D | E | To preserve the woods you have to cut periodically. We cut to maintain the natural productivity of the land.                |
| 13. | A | B | C | D | E | I would allow the public to use my land for recreation, including hunting, if my taxes were reduced for doing so.           |
| 14. | A | B | C | D | E | I like the beauty of the forest the most. We must preserve it, not damage it.                                               |
| 15. | A | B | C | D | E | It is getting harder and harder to find places to use for recreation; owning forest land insures we will have a place.      |

The following questions are asked to insure proper classification to questions 1 through 32 by categories such as age, sex, and education. If you need space to expand on any of your answers, use the space at the end of the questionnaire. Again, answers are strictly confidential and only statistical tabulations are published. No information that could identify you as an individual is ever published, or released.

**THESE QUESTIONS DO NOT PERTAIN TO AND SHOULD NOT BE ANSWERED BY CORPORATIONS AND ORGANIZATIONS.**

If the woodland is owned by more than one person, the following questions should be answered for the person to whom the questionnaire is addressed. If the questionnaire is addressed, to joint owners, as husband and wife, these questions should be answered by the person who makes most of the decisions.

33. During the first 12 years of the owner's life, where did he or she live most of the time:

**Check one**

- 1. \_\_\_\_\_ In a city with a population of 100,000 or more
- 2. \_\_\_\_\_ In a city with a population of 10,000 to 99,999
- 3. \_\_\_\_\_ In a town with a population of fewer than 10,000
- 4. \_\_\_\_\_ In a rural area
- 5. \_\_\_\_\_ On a farm

34. What is the sex of the owner?

1. Male \_\_\_\_\_ 2. Female \_\_\_\_\_ 3. Joint Ownership \_\_\_\_\_

35. What is the age of the owner?

**Check one**

- 1. \_\_\_\_\_ Under 25
- 2. \_\_\_\_\_ 25-34
- 3. \_\_\_\_\_ 35-44
- 4. \_\_\_\_\_ 45-54
- 5. \_\_\_\_\_ 55-64
- 6. \_\_\_\_\_ 65 and over

36. How many years of formal education has the owner completed?

**Check one**

- 1. \_\_\_\_\_ Grade 1-8
- 2. \_\_\_\_\_ Some high school (9-11)
- 3. \_\_\_\_\_ High school (12)
- 4. \_\_\_\_\_ Some schooling beyond high school (12-15)
- 5. \_\_\_\_\_ Undergraduate college degree (16)
- 6. \_\_\_\_\_ Some graduate college work (16+)

37. What is the primary occupation of the owner?

---

38. What is your best estimate of the total combined income of all members of the owner's household over 14 years of age during the past 12 months?  
(Please include NET income from businesses, farming, and rentals, money from jobs, pensions, dividends, interest, Social Security, unemployment, welfare, and workman's compensation.)

Check one

- 1. \_\_\_\_\_ Less than \$10,000
- 2. \_\_\_\_\_ \$10,000 to \$19,999
- 3. \_\_\_\_\_ \$20,000 to \$29,999
- 4. \_\_\_\_\_ \$30,000 to \$39,999
- 5. \_\_\_\_\_ \$40,000 to \$49,999
- 6. \_\_\_\_\_ \$50,000 to \$59,999
- 7. \_\_\_\_\_ \$60,000 to \$74,999
- 8. \_\_\_\_\_ \$74,000 to \$99,999
- 9. \_\_\_\_\_ Over \$100,000

How many people in owner's household are over age 14?

Number \_\_\_\_\_

39. Which category below most closely describes the racial or ethnic origin of the owner?

Check one

- 1. \_\_\_\_\_ White (not of Hispanic origin)
- 2. \_\_\_\_\_ Black (not of Hispanic origin)
- 3. \_\_\_\_\_ American Indian or Alaskan native
- 4. \_\_\_\_\_ Hispanic
- 5. \_\_\_\_\_ Asian or Pacific Islander

THANK YOU FOR TAKING THE TIME TO FILL OUT OUR QUESTIONNAIRE. YOUR COOPERATION IS GREATLY APPRECIATED. WOULD YOU LIKE TO BE SENT A COPY OF THE RESULTS OF THIS SURVEY?

1. \_\_\_\_\_ Yes      2. \_\_\_\_\_ No

Please feel free to write in any comments you have in the space below or on the next page.

Public reporting burden for this collection of information is estimated to average 15 minutes, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to Department of Agriculture, Clearance Officer, OIRM, Room 404-W, Washington, DC 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB# 0596-0078), Washington, DC 20503.

## DEFINITION OF TERMS

**Commercial species.**—Tree species presently or prospectively suitable for industrial wood products. (Note: Excludes species of typically small size, poor form, or inferior quality.)

**Cord.**—One standard cord is 128 cubic feet of stacked wood, including bark and air space. Cubic feet can be converted to solid wood standard cords by dividing by 79.

**Corporate.**—Lands owned by a private corporation not in the business of operating primary wood-using plants.

**Farm.**—Any place from which \$1,000 or more of agriculture products were produced and sold during the year.

**Farmer-owned land.**—Land owned by persons whose primary occupation is farming.

**Forest industry land.**—Land owned by companies or individuals operating primary wood-using plants.

**Forest land.**—Land at least 10 percent stocked. (Note: Historically 16.7 percent was used based on full stocking equaling 167 percent. Consequently, this was equal to a standard of 10 percent based on a 100-percent scale that is now used) by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use. (Note: Stocking is measured by comparing specified standards with basal area and/or number of trees, age or size, and spacing.) The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelterbelt strips of timber must have a crown width of at least 120 feet to qualify as forest land. Unimproved roads and trails, streams, or other bodies of water or clearings in forest areas shall be classed as forest if less than 120 feet wide. (See Tree, Land, Timberland, Reserved forest land, Other forest land, Stocking, and Water.)

**Forest type.**—A classification of forest land based on the species forming a plurality of live tree stocking. The associated species for each forest type are based on net volume of growing stock and all live biomass by species group from the 1996 inventory of Wisconsin forests.

**Growing-stock tree.**—A live tree of commercial species that meets specified standards of size, quality, and merchantability. (Note: Excludes rough, rotten, and dead trees.)

**Growing-stock volume.**—Net volume in cubic feet of growing-stock trees 5.0 inches d.b.h. and over, from 1 foot above the ground to a minimum 4.0-inch top diameter outside bark of the central stem or to the point where the central stem breaks into limbs.

**Individual private land.**—Privately owned land held in individual or joint ownership.

**Industrial wood.**—All roundwood products except residential fuelwood.

**Land.**—(a) *Bureau of the Census.* Dry land and land temporarily or partly covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than one-eighth of a statute mile wide; and lakes, reservoirs, and ponds less than 40 acres in area.

(b) *Forest Inventory and Analysis.* The same as the Bureau of the Census, except minimum width of streams, etc., is 120 feet and minimum size of lakes, etc., is 1 acre.

**Native American land.**—Land held in trust by the United States for tribes or individual Native Americans (Indians).

**Nonforest land.**—Land that has never supported forests, and land formerly forested where use for timber management is precluded by development for other uses. (Note: Includes areas used for crops, active Christmas tree plantations as indicated by annual shearing, orchards, nurseries, improved pasture, residential areas, city parks, improved roads of any width and adjoining clearings, powerline clearings of any width, and 1- to 40-acre areas of water classified by the Bureau of the Census as land.) If intermingled in forest areas, unimproved roads and nonforest strips must be more than 120 feet wide and more than 1 acre in area to qualify as nonforest land.

*Nonforest land without trees.*—Nonforest land with no live trees present.

*Nonforest land with trees.*—Nonforest land with one or more trees per acre at least 5 inches d.b.h.

**Nonresident owner.**—An owner whose primary residence is more than a mile from the nearest tract of timberland owned.

**Other forest land.**—Forest land not capable of producing 20 cubic feet per acre per year of industrial wood crops under natural conditions and not associated with urban or rural development. Many of these sites contain tree species that are not currently used for industrial wood production or trees of poor form, small size, or inferior quality that are unfit for most industrial products. Unproductivity may be the result of adverse site conditions such as sterile soil, dry climate, poor drainage, high elevation, and rockiness. This land is not withdrawn from timber use.

**Owner tenure.**—The length of time a property has been held by an owner.

**Ownership size class.**—The amount of timberland owned by one owner, regardless of the number of parcels.

**Ownership unit.**—All types of legal entities having ownership interest in land, regardless of the number of people involved. The ownership unit is the focus of decision-making for each parcel whether an individual (sole proprietor), group of individuals (partnerships or individual estates), or legal person (corporation or trust).

**Plantation.**—An artificially reforested area sufficiently productive to qualify as timberland. The planted species is not necessarily predominant. Christmas tree plantations, which are considered cropland, are not included.

**Poletimber stand.**—(See Stand-size class.)

**Poletimber tree.**—A live tree of commercial species at least 5.0 inches d.b.h., but smaller than sawtimber size.

**Posted land.**—Ownerships displaying signs indicating public trespass or admittance is not allowed.

**Primary wood-using mills.**—Mills receiving roundwood or chips from roundwood for processing into products.

**Pulpwood.**—Any log from which wood pulp is to be made; usually measured in bolts of 4 or 8 feet.

**Private timberland.**—All timberland other than that owned by Federal, State, or local government or their agencies.

**Public timberland.**—

*County and municipal land.*—Land owned by counties and local public agencies or municipalities, or land leased to these governmental units for 50 years or more.

*Miscellaneous Federal land.*—Federal land other than National Forest land administered by agencies of the Federal government.

*National Forest land.*—Federal land that has been legally designated as National Forest or purchase units, and other land administered by the USDA Forest Service.

*State land.*—Land owned by the State of Wisconsin or leased to it for 50 years or more.

**Reserved forest land.**—Forest land withdrawn from timber use through statute, administrative regulation, or designation. Note: Christmas tree plantations were once classified as reserved forest land. Now however, they are classified as cropland.

**Resident owner.**—An owner whose primary residence is within a mile of the nearest tract of timberland owned.

**Sapling.**—A live tree 1.0 to 5.0 inches d.b.h.

**Sapling-seedling stand.**—(See Stand-size class.)

**Sawtimber stand.**—(See Stand-size class.)

**Sawtimber tree.**—A live tree of commercial species containing at least a 12-foot saw log or two noncontiguous saw logs 8 feet or longer, and meeting regional specifications for freedom from defect. Softwoods must be at least 9.0 inches d.b.h. Hardwoods must be at least 11.0 inches d.b.h.

**Seedling.**—A live tree less than 1.0 inch d.b.h. that is expected to survive. Only softwood seedlings more than 6 inches tall and hardwood seedlings more than 1 foot tall are counted.

**Softwoods.**—Coniferous trees, usually evergreen, having needles or scale-like leaves.

**Stand.**—A group of trees on a minimum of 1 acre of forest land that is stocked by forest trees of any size.

**Stand-size class.**—A classification of stocked (see Stocking) forest land based on the size class of live trees on the area; that is, sawtimber, poletimber, or seedlings and saplings.

*Sawtimber stands.*—Stands with half or more of live tree stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

*Poletimber stands.*—Stands with half or more of live tree stocking in poletimber and/or sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

*Sapling-seedling stands.*—Stands with more than half of the live tree stocking in saplings and/or seedlings.

**Timberland.**—Forest land that is producing, or is capable of producing, more than 20 cubic feet per acre per year of industrial wood crops under natural conditions, that is not withdrawn from timber use, and that is not associated with urban or rural development. Currently inaccessible and inoperable areas are included. (Timberland was formerly called commercial forest land.)

**Urban and other areas.**—Areas within the legal boundaries of cities and towns; suburban areas developed for residential, industrial, or recreational purposes; school yards; cemeteries; roads; railroads; airports; beaches; powerlines and other rights-of-way; or other nonforest land not included in any other specified land-use class.

**Urban forest land.**—Land that would otherwise meet the criteria for timberland but that is in an urban-suburban area surrounded by commercial, industrial, or residential development and not likely to be managed for the production of industrial wood products on a continuing basis. Wood removed would be for land clearing, fuelwood, or esthetic purposes. Such forest land may be associated with industrial, commercial, residential subdivision, industrial parks, golf course perimeters, airport buffer strips, and public urban parks that qualify as forest land.

**Water.**—(a) *Bureau of the Census.*—Permanent inland water surfaces, such as lakes, reservoirs, and ponds at least 40 acres in area; and streams, sloughs, estuaries, and canals at least one-eighth of a statute mile wide.

(b) *Noncensus.*—Permanent inland water surfaces, such as lakes, reservoirs, and ponds from 1 to 39.9 acres in area; and streams, sloughs, estuaries, and canals from 120 feet to one-eighth of a statute mile wide.

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Table 1. -- Area of timberland by ownership class and Forest Survey Unit, Wisconsin, 1997

| Ownership class      | Forest Survey Unit |              |           |              |              | All units  |
|----------------------|--------------------|--------------|-----------|--------------|--------------|------------|
|                      | Northeastern       | Northwestern | Central   | Southwestern | Southeastern |            |
|                      | Acres              |              |           |              |              |            |
| Public               |                    |              |           |              |              |            |
| National forest      | 597,500            | 766,000      | -         | -            | -            | 1,363,500  |
| Other federal        | -                  | 17,800       | 103,000   | 33,000       | 3,400        | 157,200    |
| State                | 229,500            | 226,900      | 117,600   | 94,600       | 75,500       | 744,100    |
| County and municipal | 665,100            | 1,157,500    | 426,600   | 11,300       | 21,800       | 2,282,300  |
| Total public         | 1,492,100          | 2,168,200    | 647,200   | 138,900      | 100,700      | 4,547,100  |
| Private              |                    |              |           |              |              |            |
| Forest Industry      | 508,900            | 477,600      | 101,300   | 3,100        | 11,300       | 1,102,200  |
| Corporate            | 168,900            | 241,700      | 140,500   | 62,000       | 78,600       | 691,700    |
| Individual           | 1,754,500          | 2,446,400    | 2,153,100 | 1,823,100    | 840,900      | 9,018,000  |
| Total private        | 2,432,300          | 3,165,700    | 2,394,900 | 1,888,200    | 930,800      | 10,811,900 |
| Native American      | 261,100            | 80,200       | -         | -            | 2,200        | 343,500    |
| All ownerships       | 4,185,500          | 5,414,100    | 3,042,100 | 2,027,100    | 1,033,700    | 15,702,500 |

Table 2.--Estimated number of private owners and acres of timberland owned by size class  
and Forest Survey Unit, Wisconsin, 1997

| Size class<br>of ownership<br>(acres) | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         | Sampling<br>error |
|---------------------------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|-------------------|
|                                       | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent | Percent           |
| Owners                                |              |         |              |         |           |         |              |         |              |         |            |         |                   |
| 1-9                                   | 3,637        | 10      | 35,470       | 50      | 14,140    | 23      | 8,581        | 23      | 29,737       | 54      | 91,565     | 35      | 17.5              |
| 10-19                                 | 8,652        | 24      | 5,538        | 8       | 10,219    | 17      | 6,788        | 18      | 8,585        | 16      | 39,782     | 15      | 11.3              |
| 20-49                                 | 12,575       | 34      | 13,748       | 19      | 20,112    | 33      | 10,444       | 27      | 12,200       | 22      | 69,079     | 26      | 5.2               |
| 50-99                                 | 7,031        | 19      | 8,337        | 12      | 11,951    | 19      | 6,495        | 17      | 2,765        | 5       | 36,579     | 14      | 7.4               |
| 100-199                               | 3,256        | 9       | 4,991        | 7       | 3,942     | 6       | 4,035        | 10      | 1,033        | 2       | 17,257     | 7       | 5.4               |
| 200-499                               | 1,489        | 4       | 2,184        | 3       | 1,264     | 2       | 1603         | 4       | 395          | 1       | 6,935      | 3       | 8.1               |
| 500-999                               | 153          | **      | 260          | **      | 84        | **      | 180          | 1       | 27           | **      | 704        | **      | 12.8              |
| 1,000-4,999                           | 95           | **      | 106          | **      | 33        | **      | 21           | **      | 15           | **      | 270        | **      | 20.7              |
| 5,000+                                | 30           | **      | 27           | **      | 4         | **      | 2            | **      | -            | -       | 63         | **      | 27.1              |
| Total                                 | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     | 6.2               |
| Sampling error (%)                    | 10.0         |         | 15.0         |         | 8.5       |         | 18.4         |         | 14.1         |         | 6.2        |         |                   |
| Acres Owned                           |              |         |              |         |           |         |              |         |              |         |            |         |                   |
| 1-9                                   | 16,366       | 1       | 118,533      | 2       | 68,501    | 3       | 20,303       | 1       | 115,627      | 12      | 339,330    | 3       | 13.7              |
| 10-19                                 | 106,379      | 4       | 76,698       | 4       | 137,003   | 6       | 87,981       | 5       | 109,846      | 12      | 517,907    | 5       | 11.3              |
| 20-49                                 | 400,966      | 16      | 474,133      | 15      | 622,739   | 26      | 318,084      | 17      | 341,100      | 37      | 2,157,022  | 20      | 5.5               |
| 50-99                                 | 482,797      | 20      | 571,748      | 18      | 635,194   | 26      | 426,368      | 23      | 173,441      | 19      | 2,289,548  | 21      | 5.5               |
| 100-199                               | 400,967      | 17      | 613,583      | 19      | 485,736   | 20      | 500,813      | 26      | 109,846      | 12      | 2,110,945  | 20      | 5.8               |
| 200-499                               | 319,137      | 13      | 536,886      | 17      | 280,233   | 12      | 392,529      | 21      | 40,470       | 4       | 1,569,255  | 14      | 6.8               |
| 500-999                               | 98,196       | 4       | 160,368      | 5       | 43,592    | 2       | 115,052      | 6       | 17,344       | 2       | 434,552    | 4       | 12.9              |
| 1,000-4,999                           | 122,745      | 5       | 118,533      | 4       | 31,137    | 1       | 20,303       | 1       | 23,126       | 2       | 315,844    | 3       | 15.5              |
| 5000+                                 | 484,747      | 20      | 495,218      | 16      | 90,765    | 4       | 6,767        | **      | -            | -       | 1,077,497  | 10      | 25.1              |
| Total                                 | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     | 0.3               |
| Sampling error (%)                    | 0.8          |         | 0.7          |         | 0.6       |         | 0.6          |         | 0.4          |         | 0.3        |         |                   |

\*\* Less than 0.5 percent.

Table 3.--Estimated number of private owners and acres of timberland owned by  
number of tracts and Forest Survey Unit, Wisconsin, 1997

| Number<br>of tracts | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         |
|---------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|
|                     | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |
| Owners              |              |         |              |         |           |         |              |         |              |         |            |         |
| 1                   | 24,349       | 66      | 57,598       | 82      | 43,736    | 71      | 27,570       | 72      | 37,921       | 69      | 191,174    | 73      |
| 2                   | 8,739        | 24      | 6,658        | 9       | 12,060    | 19      | 5,589        | 15      | 11,022       | 20      | 44,068     | 17      |
| 3 or more           | 3,830        | 10      | 6,405        | 9       | 5,953     | 10      | 4,990        | 13      | 5,814        | 11      | 26,992     | 10      |
| Total               | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     |
| Acres Owned         |              |         |              |         |           |         |              |         |              |         |            |         |
| 1                   | 842,848      | 35      | 1,227,167    | 39      | 1,133,385 | 47      | 947,484      | 50      | 450,947      | 48      | 4,601,831  | 43      |
| 2                   | 580,993      | 24      | 599,638      | 19      | 572,920   | 24      | 412,832      | 22      | 242,817      | 26      | 2,409,200  | 22      |
| 3 or more           | 1,008,459    | 41      | 1,338,895    | 42      | 688,595   | 29      | 527,884      | 28      | 237,036      | 26      | 3,800,869  | 35      |
| Total               | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     |

Table 4.--Estimated number of private owners and acres of timberland owned by distance from nearest forest tract and Forest Survey Unit, Wisconsin, 1997

| Distance from residence (miles) | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         |
|---------------------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|
|                                 | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |
| Owners                          |              |         |              |         |           |         |              |         |              |         |            |         |
| Less than 1                     | 14,366       | 39      | 30,484       | 43      | 37,087    | 60      | 28,201       | 74      | 42,449       | 77      | 152,587    | 58      |
| 2-25                            | 7,365        | 20      | 5,210        | 7       | 6,041     | 10      | 4,252        | 11      | 3,688        | 7       | 26,556     | 10      |
| 26-100                          | 2,982        | 8       | 2,520        | 4       | 6,851     | 11      | 2,394        | 6       | 4,936        | 9       | 19,683     | 8       |
| 100+                            | 10,896       | 30      | 23,105       | 33      | 9,906     | 16      | 3,108        | 8       | 2,520        | 5       | 49,535     | 19      |
| No answer                       | 1,309        | 3       | 9,342        | 13      | 1,864     | 3       | 194          | 1       | 1,164        | 2       | 13,873     | 5       |
| Total                           | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     |
| Acres Owned                     |              |         |              |         |           |         |              |         |              |         |            |         |
| Less than 1                     | 999,416      | 41      | 1,669,888    | 53      | 1,429,863 | 60      | 1,252,032    | 66      | 682,201      | 73      | 6,033,400  | 56      |
| 2-25                            | 770,061      | 32      | 585,977      | 18      | 336,070   | 14      | 250,406      | 13      | 156,097      | 17      | 2,098,611  | 19      |
| 26-100                          | 196,392      | 8       | 230,094      | 7       | 168,140   | 7       | 169,194      | 9       | 52,032       | 6       | 815,852    | 8       |
| 100+                            | 433,699      | 18      | 629,656      | 20      | 417,235   | 17      | 196,265      | 11      | 28,907       | 3       | 1,705,762  | 16      |
| No answer                       | 32,732       | 1       | 50,085       | 2       | 43,592    | 2       | 20,303       | 1       | 11,563       | 1       | 158,275    | 1       |
| Total                           | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     |

Table 5.--Estimated number of private owners and acres of timberland owned  
by distance from residence and number of tracts, Wisconsin, 1997

| Distance from<br>residence<br>(miles) | Owners of more than one tract |         |               |         |                |         |
|---------------------------------------|-------------------------------|---------|---------------|---------|----------------|---------|
|                                       | Owners of<br>one tract        |         | Distance to:  |         |                |         |
|                                       | Number                        | Percent | Nearest tract |         | Farthest tract |         |
|                                       |                               |         | Number        | Percent | Number         | Percent |
| Owners                                |                               |         |               |         |                |         |
| Less than 1                           | 105,685                       | 55      | 46,940        | 66      | 26,623         | 38      |
| 2-25                                  | 17,735                        | 9       | 8,909         | 12      | 17,915         | 25      |
| 26-100                                | 14,808                        | 8       | 4,903         | 7       | 8,007          | 11      |
| 100+                                  | 39,792                        | 21      | 9,709         | 14      | 17,716         | 25      |
| No answer                             | 13,153                        | 7       | 600           | 1       | 800            | 1       |
| Total                                 | 191,173                       | 100     | 71,061        | 100     | 71,061         | 100     |
| Acres                                 |                               |         |               |         |                |         |
| Less than 1                           | 2,408,054                     | 52      | 3,624,864     | 58      | 1,382,065      | 22      |
| 2-25                                  | 684,912                       | 15      | 1,414,110     | 23      | 1,807,019      | 29      |
| 26-100                                | 412,992                       | 9       | 403,006       | 6       | 788,045        | 13      |
| 100+                                  | 974,204                       | 21      | 732,073       | 12      | 2,183,059      | 35      |
| No answer                             | 121,669                       | 3       | 36,016        | 1       | 49,881         | 1       |
| Total                                 | 4,601,831                     | 100     | 6,210,069     | 100     | 6,210,069      | 100     |

Table 6.--Estimated number of private owners and acres of timberland  
owned by form of ownership and Forest Survey Unit, Wisconsin, 1997

| Form of<br>ownership | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         | Sampling<br>error (%) |
|----------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|-----------------------|
|                      | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |                       |
| Owners               |              |         |              |         |           |         |              |         |              |         |            |         |                       |
| Individual           | 33,052       | 90      | 69,029       | 98      | 59,715    | 96      | 36,272       | 95      | 50,586       | 93      | 248,654    | 95      | 6.5                   |
| Partnership          | 1,165        | 3       | 979          | 1       | 997       | 2       | 843          | 2       | 3,477        | 6       | 7,461      | 3       | 40.0                  |
| Corporation          | 1,948        | 5       | 439          | 1       | 515       | 1       | 445          | 1       | 601          | 1       | 3,948      | 1       | 27.0                  |
| Club/Assn.           | 232          | 1       | 75           | **      | 118       | **      | 451          | 1       | **           | **      | 883        | **      | 57.0                  |
| Other                | 521          | 1       | 139          | **      | 404       | 1       | 138          | 1       | 86           | **      | 1,288      | 1       | 37.4                  |
| Total                | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     | 6.2                   |
| Sampling error (%)   | 10.0         |         | 15.0         |         | 8.5       |         | 18.4         |         | 14.1         |         | 6.2        |         |                       |
| Acres Owned          |              |         |              |         |           |         |              |         |              |         |            |         |                       |
| Individual           | 1,628,416    | 67      | 2,405,526    | 76      | 2,086,176 | 87      | 1,685,168    | 89      | 832,517      | 89      | 8,637,803  | 80      | 2.9                   |
| Partnership          | 110,830      | 5       | 127,633      | 4       | 80,956    | 3       | 101,516      | 6       | 40,470       | 4       | 461,405    | 4       | 13.4                  |
| Corporation          | 594,858      | 24      | 604,651      | 19      | 177,949   | 8       | 81,213       | 4       | 46,251       | 5       | 1,504,922  | 14      | 17.5                  |
| Club/Assn.           | 40,915       | 2       | 20,918       | 1       | 18,682    | 1       | 6,768        | **      | 5,781        | 1       | 93,064     | 1       | 28.1                  |
| Other                | 57,281       | 2       | 6,972        | **      | 31,137    | 1       | 13,535       | 1       | 5,781        | 1       | 114,706    | 1       | 25.4                  |
| Total                | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     | 0.3                   |
| Sampling error (%)   | 0.8          |         | 0.7          |         | 0.6       |         | 0.6          |         | 0.4          |         | 0.3        |         |                       |

\*\* Less than 0.5 percent.

Table 7.--Estimated number of farm and nonfarm ownerships and acres of timberland  
by form of ownership, Wisconsin, 1997

| Form of<br>ownership            | Farm   |         |           |         | Nonfarm |         |           |         | Total   |         |            |         |
|---------------------------------|--------|---------|-----------|---------|---------|---------|-----------|---------|---------|---------|------------|---------|
|                                 | Owners | Percent | Acres     | Percent | Owners  | Percent | Acres     | Percent | Owners  | Percent | Acres      | Percent |
| Individual                      | 77,209 | 97      | 3,119,968 | 93      | 171,446 | 94      | 5,517,834 | 74      | 248,655 | 95      | 8,637,802  | 80      |
| Business and group<br>ownership |        |         |           |         |         |         |           |         |         |         |            |         |
| Partnership                     | 885    | 1       | 98,573    | 3       | 6,576   | 4       | 362,832   | 5       | 7,461   | 3       | 461,405    | 4       |
| Corporation                     | 1,170  | 1       | 129,462   | 4       | 2,776   | 1       | 1,375,460 | 19      | 3,946   | 1       | 1,504,922  | 14      |
| Clubs/Assn.                     | -      | -       |           |         | 883     | **      | 93,064    | 1       | 883     | **      | 93,064     | 1       |
| Other                           | 209    | **      | 12,995    | **      | 1,080   | 1       | 101,712   | 1       | 1,289   | 1       | 114,707    | 1       |
| Subtotal                        | 2,264  |         | 241,030   |         | 11,315  |         | 1,933,068 |         | 13,579  |         | 2,174,098  |         |
| All owners                      | 79,473 | 100     | 3,360,998 | 100     | 182,761 | 100     | 7,450,902 | 100     | 262,234 | 100     | 10,811,900 | 100     |

\*\* Less than 0.5 percent.

Table 8.--Estimated number of private owners and acres of timberland owned by occupation and Forest Survey Unit, Wisconsin, 1997

| Occupation               | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         | SE      |
|--------------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|---------|
|                          | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent | Percent |
| Owners                   |              |         |              |         |           |         |              |         |              |         |            |         |         |
| Professional             | 5,496        | 15      | 6,834        | 10      | 3,474     | 6       | 5,098        | 14      | 6,395        | 12      | 27,297     | 10      | 18.2    |
| Executive                | 3,422        | 9       | 4,291        | 6       | 7,556     | 12      | 1,991        | 5       | 5,331        | 10      | 22,591     | 9       | 17.9    |
| Other white collar       | 306          | 1       | 2,151        | 3       | 1,461     | 2       | 918          | 2       | 165          | **      | 5,001      | 2       | 18.0    |
| Skilled trade            | 2,723        | 7       | 12,717       | 18      | 4,591     | 7       | 1,473        | 4       | 5,835        | 11      | 27,339     | 10      | 20.0    |
| Other blue collar        | 3,131        | 9       | 5,143        | 7       | 8,064     | 13      | 1,793        | 5       | 2,088        | 4       | 20,219     | 8       | 15.6    |
| Farmers                  | 2,194        | 6       | 2,300        | 3       | 10,776    | 17      | 9,343        | 24      | 9,968        | 18      | 34,581     | 13      | 12.5    |
| Service worker           | 239          | 1       | 2,806        | 4       | 2,202     | 4       | 613          | 2       | 671          | 1       | 6,531      | 3       | 28.5    |
| Homemaker                | 557          | 2       | 7,344        | 11      | 500       | 1       | -            | -       | -            | -       | 8,401      | 3       | 83.2    |
| Retired                  | 12,629       | 34      | 13,362       | 19      | 14,838    | 24      | 13,251       | 35      | 16,919       | 31      | 70,999     | 27      | 15.5    |
| Corp.; Partnership, etc. | 3,866        | 10      | 1,632        | 2       | 2,033     | 4       | 1,877        | 5       | 4,171        | 7       | 13,579     | 5       | 23.8    |
| No answer                | 2,355        | 6       | 12,081       | 17      | 6,254     | 10      | 1,792        | 4       | 3,214        | 6       | 25,696     | 10      | 23.9    |
| Total                    | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     | 6.2     |
| Sampling error (%)       | 10.0         |         | 15.0         |         | 8.5       |         | 18.4         |         | 14.1         |         | 6.2        |         |         |
| Acres Owned              |              |         |              |         |           |         |              |         |              |         |            |         |         |
| Professional             | 212,758      | 9       | 264,956      | 8       | 168,139   | 7       | 223,335      | 12      | 92,502       | 10      | 961,690    | 9       | 8.6     |
| Executive                | 188,209      | 8       | 292,846      | 9       | 280,233   | 12      | 175,961      | 9       | 98,283       | 10      | 1,035,532  | 9       | 8.2     |
| Other white collar       | 32,732       | 1       | 139,451      | 4       | 74,729    | 3       | 54,142       | 3       | 5,781        | 1       | 306,835    | 3       | 15.1    |
| Skilled trade            | 155,477      | 6       | 306,792      | 10      | 199,276   | 8       | 74,445       | 4       | 80,939       | 9       | 816,929    | 8       | 9.4     |
| Other blue collar        | 188,209      | 8       | 230,094      | 7       | 217,959   | 9       | 81,213       | 4       | 34,688       | 3       | 752,163    | 7       | 9.8     |
| Farmers                  | 163,660      | 7       | 195,231      | 6       | 348,734   | 15      | 534,652      | 28      | 225,473      | 24      | 1,467,750  | 13      | 6.3     |
| Service worker           | 16,366       | 1       | 55,780       | 2       | 74,729    | 3       | 40,607       | 2       | 23,126       | 3       | 210,608    | 2       | 17.7    |
| Homemaker                | 16,366       | 1       | 34,863       | 1       | 18,682    | 1       | -            | -       | -            | -       | 69,911     | 1       | 31.9    |
| Retired                  | 572,809      | 23      | 683,309      | 22      | 585,375   | 24      | 412,832      | 22      | 213,911      | 23      | 2,468,236  | 23      | 5.5     |
| Corp.; Partnership, etc. | 803,884      | 33      | 760,174      | 24      | 308,724   | 13      | 203,032      | 11      | 98,283       | 11      | 2,174,097  | 20      | 11.6    |
| No answer                | 81,830       | 3       | 202,204      | 6       | 118,320   | 5       | 87,981       | 5       | 57,814       | 6       | 548,149    | 5       | 11.3    |
| Total                    | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     | 0.3     |
| Sampling error (%)       | 0.8          |         | 0.7          |         | 0.6       |         | 0.6          |         | 0.4          |         | 0.3        |         |         |

Table 9.--Estimated number of private individual owners and acres of timberland owned  
by age class and Forest Survey Unit, Wisconsin, 1997

| Age class<br>(years) | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         |
|----------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|
|                      | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |
| Owners               |              |         |              |         |           |         |              |         |              |         |            |         |
| Under 25             | -            | -       | -            | -       | -         | -       | -            | -       | -            | -       | -          | -       |
| 25-44                | 4,485        | 12      | 8,458        | 12      | 11,141    | 18      | 9,031        | 24      | 7,572        | 14      | 40,687     | 16      |
| 45-64                | 15,032       | 41      | 36,225       | 52      | 31,042    | 50      | 18,298       | 48      | 26,325       | 48      | 126,922    | 48      |
| 65 or older          | 11,899       | 32      | 13,561       | 19      | 16,509    | 27      | 8,699        | 23      | 14,548       | 26      | 65,216     | 25      |
| All other owner      | 3,865        | 10      | 1,632        | 2       | 2,033     | 3       | 1,878        | 5       | 4,171        | 8       | 13,578     | 5       |
| No answer            | 1,637        | 5       | 10,785       | 15      | 1,024     | 2       | 243          | 1       | 2,141        | 4       | 15,831     | 6       |
| Total                | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     |
| Acres Owned          |              |         |              |         |           |         |              |         |              |         |            |         |
| Under 25             | -            | -       | -            | -       | -         | -       | -            | -       | -            | -       | -          | -       |
| 25-44                | 286,405      | 12      | 425,325      | 13      | 367,416   | 15      | 351,923      | 19      | 138,753      | 15      | 1,569,822  | 15      |
| 45-64                | 801,933      | 33      | 1,157,441    | 37      | 1,096,021 | 46      | 785,058      | 43      | 375,789      | 40      | 4,216,242  | 39      |
| 65 or older          | 523,712      | 21      | 718,171      | 23      | 579,147   | 24      | 521,116      | 26      | 283,287      | 30      | 2,625,433  | 24      |
| All other owners     | 803,884      | 33      | 760,175      | 24      | 308,724   | 13      | 203,032      | 11      | 98,283       | 11      | 2,174,098  | 20      |
| No answer            | 16,366       | 1       | 104,588      | 3       | 43,592    | 2       | 27,071       | 1       | 34,688       | 4       | 226,305    | 2       |
| Total                | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     |

Table 10.--Estimated number of private individual owners and acres of timberland owned by annual income class and Forest Survey Unit, Wisconsin, 1997

| Annual income    | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         |
|------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|
|                  | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |
| Owners           |              |         |              |         |           |         |              |         |              |         |            |         |
| Under \$19,999   | 2,257        | 6       | 4,204        | 6       | 5,922     | 10      | 3,236        | 8       | 8,292        | 15      | 23,911     | 9       |
| 20,000-39,999    | 6,983        | 19      | 15,284       | 22      | 18,504    | 30      | 10,873       | 28      | 14,401       | 26      | 66,045     | 25      |
| 40,000-59,999    | 8,377        | 22      | 17,501       | 25      | 12,117    | 19      | 5,646        | 15      | 6,853        | 13      | 50,494     | 20      |
| 60,000-74,999    | 2,727        | 8       | 7,606        | 11      | 4,878     | 8       | 943          | 3       | 3,832        | 7       | 19,986     | 8       |
| 75,000-99,999    | 2,041        | 6       | 4,235        | 6       | 4,330     | 7       | 1,832        | 5       | 3,031        | 6       | 15,469     | 6       |
| 100,000+         | 3,334        | 9       | 3,995        | 5       | 3,118     | 5       | 2,538        | 7       | 8,939        | 16      | 21,924     | 8       |
| No answer        | 7,333        | 20      | 16,204       | 23      | 10,847    | 17      | 11,204       | 29      | 5,238        | 10      | 50,826     | 19      |
| All other owners | 3,866        | 10      | 1,632        | 2       | 2,033     | 4       | 1,877        | 5       | 4,171        | 7       | 13,579     | 5       |
| Total            | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     |
| Acres Owned      |              |         |              |         |           |         |              |         |              |         |            |         |
| Under \$19,999   | 90,013       | 4       | 257,983      | 4       | 180,594   | 8       | 142,122      | 7       | 115,628      | 12      | 786,340    | 7       |
| 20,000-39,999    | 417,332      | 17      | 641,474      | 17      | 523,101   | 21      | 514,349      | 27      | 173,441      | 19      | 2,269,697  | 21      |
| 40,000-59,999    | 392,784      | 16      | 376,517      | 16      | 498,192   | 21      | 297,781      | 16      | 98,283       | 11      | 1,663,557  | 16      |
| 60,000-74,999    | 122,745      | 5       | 223,121      | 5       | 205,504   | 9       | 94,748       | 5       | 92,502       | 10      | 738,620    | 7       |
| 75,000-99,999    | 130,928      | 5       | 209,176      | 5       | 168,139   | 7       | 108,284      | 6       | 69,376       | 7       | 685,903    | 6       |
| 100,000+         | 204,575      | 9       | 306,792      | 9       | 230,413   | 10      | 270,710      | 14      | 144,534      | 15      | 1,157,024  | 11      |
| No answer        | 270,039      | 11      | 390,462      | 11      | 280,233   | 11      | 257,174      | 14      | 138,753      | 15      | 1,336,661  | 12      |
| All other owners | 803,884      | 33      | 760,175      | 33      | 308,724   | 13      | 203,032      | 11      | 98,283       | 11      | 2,174,098  | 20      |
| Total            | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     |

Table 11.--Estimated number of corporate and nonindividual owners<sup>1</sup> by nature of business and form of ownership,  
Wisconsin, 1997

| Nature of business     | Form of ownership |         |              |         |             |         |        |         | All businesses and groups |         |
|------------------------|-------------------|---------|--------------|---------|-------------|---------|--------|---------|---------------------------|---------|
|                        | Corporations      |         | Partnerships |         | Clubs/Assn. |         | Other  |         | Number                    | Percent |
|                        | Number            | Percent | Number       | Percent | Number      | Percent | Number | Percent |                           |         |
| Owners                 |                   |         |              |         |             |         |        |         |                           |         |
| Forest industry        | 206               | 5       | 8            | **      | -           | -       | -      | -       | 214                       | 1       |
| Nonfarm                | -                 | -       | 145          | 2       | -           | -       | -      | -       | 145                       | 1       |
| Business unspecified   | 213               | 5       | 1,795        | 24      | -           | -       | -      | -       | 2,008                     | 17      |
| Industrial business    | 86                | 2       | -            | -       | -           | -       | -      | -       | 1,881                     | 12      |
| Land investment        | 582               | 15      | 43           | 1       | -           | -       | -      | -       | 625                       | 4       |
| Nonindustrial business | 42                | 1       | 256          | 3       | -           | -       | -      | -       | 298                       | 2       |
| Sport/recreation club  | 110               | 3       | 3,843        | 51      | 876         | 99      | 64     | 5       | 4,893                     | 30      |
| Public utility         | 9                 | **      | -            | -       | -           | -       | -      | -       | 9                         | **      |
| Trust                  | -                 | -       | -            | -       | -           | -       | 1,015  | 79      | 1,015                     | 6       |
| Other                  | 1,529             | 39      | 486          | 7       | 7           | 1       | -      | -       | 2,022                     | 13      |
| Nonfarm subtotal       | 2,777             | 70      | 6,576        | 88      | 883         | 100     | 1,079  | 84      | 11,315                    | 86      |
| Farms                  | 1,171             | 30      | 885          | 12      | -           | -       | 209    | 16      | 2,265                     | 14      |
| Total                  | 3,948             | 100     | 7,461        | 100     | 883         | 100     | 1,288  | 100     | 13,580                    | 100     |

<sup>1</sup> Does not include individual owners.

\*\* Less than 0.5 percent.

Table 12.--Estimated acres of timberland in corporate and nonindividual ownerships by nature of business and form of ownership, Wisconsin, 1997

| Nature of business     | Form of ownership |         |              |         |             |         |         |         | All businesses and groups |         |
|------------------------|-------------------|---------|--------------|---------|-------------|---------|---------|---------|---------------------------|---------|
|                        | Corporations      |         | Partnerships |         | Clubs/Assn. |         | Other   |         | Acres                     | Percent |
|                        | Acres             | Percent | Acres        | Percent | Acres       | Percent | Acres   | Percent |                           |         |
| Acres Owned            |                   |         |              |         |             |         |         |         |                           |         |
| Forest industry        | 988,527           | 66      | 37,183       | 8       | -           | -       | -       | -       | 1,025,710                 | 47      |
| Nonfarm                | -                 | -       | 13,945       | 3       | -           | -       | -       | -       | 13,945                    | 1       |
| Business unspecified   | 59,412            | 4       | 140,196      | 30      | -           | -       | -       | -       | 199,608                   | 9       |
| Industrial business    | 84,584            | 6       | -            | -       | -           | -       | -       | -       | 84,584                    | 4       |
| Land investment        | 76,457            | 5       | 13,945       | 3       | -           | -       | -       | -       | 90,402                    | 4       |
| Nonindustrial business | 16,366            | 1       | 8,183        | 2       | -           | -       | -       | -       | 24,549                    | 1       |
| Sport/recreation       | 21,383            | 2       | 115,722      | 25      | 87,283      | 94      | 14,409  | 13      | 238,797                   | 11      |
| Public utility         | 37,549            | 3       | -            | -       | -           | -       | -       | -       | 37,549                    | 2       |
| Trust                  | -                 | -       | -            | -       | -           | -       | 87,302  | 76      | 87,302                    | 4       |
| Other                  | 91,182            | 6       | 33,658       | 7       | 5,781       | 6       | -       | -       | 130,621                   | 6       |
| Nonfarm subtotal       | 1,375,460         | 93      | 362,832      | 78      | 93,064      | 100     | 101,711 | 89      | 1,933,067                 | 89      |
| Farms                  | 129,462           | 7       | 98,573       | 22      | -           | -       | 12,995  | 11      | 241,030                   | 11      |
| Total                  | 1,504,922         | 100     | 461,405      | 100     | 93,064      | 100     | 114,706 | 100     | 2,174,097                 | 100     |

Table 13.--Estimated number of private owners and acres of timberland  
owned by date of acquisition and form of ownership, Wisconsin, 1997

| Year acquired | Individual & farmer |         | Corporate & other |         | All forms of ownership |         | Sampling error |
|---------------|---------------------|---------|-------------------|---------|------------------------|---------|----------------|
|               | Number              | Percent | Number            | Percent | Number                 | Percent | Percent        |
| Owners        |                     |         |                   |         |                        |         |                |
| 1990-1997     | 45,357              | 18      | 1,723             | 15      | 47,080                 | 18      | 18.2           |
| 1980-1989     | 61,923              | 25      | 1,795             | 15      | 63,718                 | 24      | 13.8           |
| 1970-1979     | 60,136              | 24      | 4,196             | 36      | 64,332                 | 25      | 9.2            |
| 1960-1969     | 27,154              | 11      | 936               | 8       | 28,090                 | 11      | 9.5            |
| 1950-1959     | 18,755              | 7       | 595               | 5       | 19,350                 | 7       | 18.5           |
| 1940-1949     | 10,652              | 4       | 1,022             | 9       | 11,674                 | 4       | 35.3           |
| 1901-1939     | 3,970               | **      | 264               | 2       | 4,234                  | 2       | 30.4           |
| Prior to 1900 | 713                 | 2       | 32                | 1       | 745                    | **      | 52.5           |
| No answer     | 22,023              | 9       | 988               | 9       | 23,011                 | 9       | 38.8           |
| Total         | 250,683             | 100     | 11,551            | 100     | 262,234                | 100     | 6.2            |
| Acres Owned   |                     |         |                   |         |                        |         |                |
| 1990-1997     | 1,089,121           | 12      | 140,011           | 7       | 1,229,132              | 11      | 7.2            |
| 1980-1989     | 1,940,338           | 22      | 242,090           | 12      | 2,182,428              | 20      | 5.8            |
| 1970-1979     | 2,395,399           | 27      | 205,539           | 10      | 2,600,938              | 24      | 5.2            |
| 1960-1969     | 1,638,380           | 19      | 147,419           | 8       | 1,785,799              | 16      | 6.5            |
| 1950-1959     | 874,245             | 10      | 161,543           | 8       | 1,035,788              | 10      | 9.9            |
| 1940-1949     | 404,426             | 4       | 305,217           | 16      | 709,643                | 7       | 20.7           |
| 1901-1939     | 190,835             | 2       | 674,196           | 34      | 865,031                | 8       | 28.7           |
| Prior to 1900 | 45,512              | 1       | 23,436            | 1       | 68,948                 | 1       | 31.9           |
| No answer     | 259,764             | 3       | 74,429            | 4       | 334,193                | 3       | 14.7           |
| Total         | 8,838,020           | 100     | 1,973,880         | 100     | 10,811,900             | 100     | 0.3            |

\*\* Less than 0.5 percent.

Table 14.--Estimated number of private non-forest industry owners and acres of timberland  
owned by date of acquisition and Forest Survey Unit, Wisconsin, 1997

| Year acquired | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         |
|---------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|
|               | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |
| Owners        |              |         |              |         |           |         |              |         |              |         |            |         |
| 1990-1997     | 4,128        | 11      | 8,258        | 12      | 11,196    | 18      | 13,477       | 35      | 10,021       | 18      | 47,080     | 18      |
| 1980-1989     | 9,574        | 26      | 12,219       | 17      | 21,190    | 34      | 7,571        | 20      | 13,164       | 24      | 63,718     | 24      |
| 1970-1979     | 8,073        | 22      | 14,996       | 21      | 15,292    | 25      | 8,647        | 23      | 17,324       | 32      | 64,332     | 25      |
| 1960-1969     | 5,007        | 14      | 8,611        | 12      | 5,487     | 9       | 3,896        | 10      | 5,089        | 9       | 28,090     | 11      |
| 1950-1959     | 7,419        | 20      | 2,551        | 4       | 4,263     | 7       | 1,656        | 4       | 3,461        | 6       | 19,350     | 7       |
| 1940-1949     | 601          | 2       | 4,511        | 6       | 1,570     | 3       | 1,680        | 4       | 3,312        | 6       | 11,674     | 4       |
| Prior to 1940 | 300          | **      | 2,132        | 3       | 1,474     | 2       | 582          | 2       | 481          | 1       | 4,979      | 2       |
| No answer     | 1,816        | 5       | 17,383       | 25      | 1,277     | 2       | 640          | 2       | 1,905        | 4       | 23,011     | 9       |
| Total         | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     |
| Acres Owned   |              |         |              |         |           |         |              |         |              |         |            |         |
| 1990-1997     | 147,294      | 6       | 278,902      | 9       | 323,824   | 13      | 351,923      | 19      | 127,189      | 14      | 1,229,132  | 11      |
| 1980-1989     | 536,346      | 22      | 522,023      | 16      | 566,693   | 24      | 412,832      | 22      | 144,534      | 16      | 2,182,428  | 20      |
| 1970-1979     | 454,761      | 19      | 741,215      | 23      | 610,284   | 26      | 494,045      | 26      | 300,633      | 32      | 2,600,938  | 24      |
| 1960-1969     | 408,738      | 17      | 556,119      | 18      | 348,734   | 15      | 304,548      | 16      | 167,660      | 18      | 1,785,799  | 16      |
| 1950-1959     | 320,169      | 13      | 257,984      | 8       | 249,096   | 10      | 121,819      | 6       | 86,720       | 9       | 1,035,788  | 10      |
| 1940-1949     | 209,098      | 9       | 242,117      | 8       | 105,866   | 4       | 94,748       | 5       | 57,814       | 6       | 709,643    | 7       |
| Prior to 1940 | 298,614      | 12      | 405,694      | 13      | 171,722   | 7       | 40,606       | 2       | 17,343       | 2       | 933,979    | 8       |
| No answer     | 57,280       | 2       | 161,646      | 5       | 18,681    | 1       | 67,679       | 4       | 28,907       | 3       | 334,193    | 4       |
| Total         | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     |

\*\* Less than 0.5 percent.

Table 15.--Estimated number of private owners and acres of timberland owned by primary and secondary reason for owning, Wisconsin, 1997

| Reason for owning         | Primary reason |         | Secondary reason |         |
|---------------------------|----------------|---------|------------------|---------|
|                           | Number         | Percent | Number           | Percent |
| Owners                    |                |         |                  |         |
| Land investment           | 12,328         | 5       | 8,153            | 2       |
| Recreation                | 68,429         | 26      | 39,526           | 15      |
| Timber production         | 3,800          | 2       | 7,132            | 3       |
| Farm or domestic use      | 21,980         | 8       | 23,591           | 9       |
| Esthetic enjoyment        | 49,685         | 19      | 48,324           | 19      |
| Part of farm              | 31,226         | 12      | 18,850           | 7       |
| Part of residence         | 36,253         | 14      | 21,863           | 9       |
| Estate to pass on         | 8,050          | 3       | 14,720           | 6       |
| Other                     | 6,196          | 2       | 2,926            | 1       |
| No secondary reason given | -              | -       | 52,862           | 20      |
| No answer                 | 24,287         | 9       | 24,287           | 9       |
| Total                     | 262,234        | 100     | 262,234          | 100     |
| Acres Owned               |                |         |                  |         |
| Land investment           | 679,152        | 6       | 592,162          | 5       |
| Recreation                | 3,334,057      | 31      | 1,732,902        | 16      |
| Timber production         | 1,450,323      | 13      | 801,015          | 7       |
| Farm or domestic use      | 1,035,883      | 10      | 1,139,790        | 11      |
| Esthetic enjoyment        | 1,126,467      | 10      | 1,939,677        | 18      |
| Part of farm              | 1,178,938      | 11      | 592,059          | 5       |
| Part of residence         | 969,756        | 9       | 724,565          | 7       |
| Estate to pass on         | 377,003        | 4       | 930,021          | 9       |
| Other                     | 403,416        | 4       | 79,349           | 1       |
| No secondary reason given | -              | -       | 2,023,455        | 19      |
| No answer                 | 256,905        | 2       | 256,905          | 2       |
| Total                     | 10,811,900     | 100     | 10,811,900       | 100     |

Table 16.--Estimated number of private owners and acres of timberland owned by primary reason  
for owning and Forest Survey Unit, Wisconsin, 1997

| Primary reason<br>for owning | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All owners |         | Sampling<br>error (%) |
|------------------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|-----------------------|
|                              | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |                       |
| Owners                       |              |         |              |         |           |         |              |         |              |         |            |         |                       |
| Land investment              | 1,715        | 5       | 4,892        | 7       | 1,577     | 2       | 1,409        | 4       | 2,735        | 5       | 12,328     | 5       | 15.8                  |
| Recreation                   | 16,124       | 44      | 18,611       | 26      | 16,769    | 27      | 8,452        | 22      | 8,473        | 15      | 68,429     | 26      | 9.5                   |
| Timber production            | 1,324        | 3       | 398          | 1       | 1,120     | 2       | 623          | 2       | 334          | 1       | 3,800      | 2       | 19.3                  |
| Farm or domestic use         | 2,404        | 6       | 3,467        | 5       | 7,511     | 12      | 3,193        | 8       | 5,405        | 10      | 21,980     | 8       | 11.0                  |
| Esthetic enjoyment           | 4,810        | 13      | 17,732       | 25      | 14,167    | 23      | 4,657        | 12      | 8,320        | 15      | 49,685     | 19      | 19.4                  |
| Part of farm                 | 1,409        | 4       | 2,004        | 3       | 5,394     | 9       | 8,596        | 23      | 13,824       | 25      | 31,226     | 12      | 13.5                  |
| Part of residence            | 3,123        | 8       | 10,874       | 15      | 5,474     | 9       | 9,353        | 25      | 7,429        | 14      | 36,253     | 14      | 22.4                  |
| Estate to pass on            | 2,152        | 6       | 1,882        | 3       | 2,512     | 4       | 800          | 2       | 663          | 1       | 8,050      | 3       | 23.3                  |
| Other                        | 2,828        | 8       | 1,322        | 2       | 1,613     | 3       | 140          | **      | 293          | 1       | 6,196      | 2       | 29.8                  |
| No answer                    | 989          | 3       | 9,479        | 13      | 5,612     | 9       | 926          | 2       | 7,281        | 13      | 24,287     | 9       | 34.3                  |
| Total                        | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     | 6.2                   |
| Acres Owned                  |              |         |              |         |           |         |              |         |              |         |            |         |                       |
| Land investment              | 122,745      | 5       | 273,139      | 9       | 74,729    | 3       | 121,819      | 6       | 86,720       | 9       | 679,152    | 6       | 10.5                  |
| Recreation                   | 810,116      | 33      | 1,045,882    | 33      | 853,152   | 36      | 439,903      | 23      | 185,004      | 20      | 3,334,057  | 31      | 4.9                   |
| Timber production            | 607,041      | 25      | 489,063      | 15      | 184,176   | 8       | 135,355      | 7       | 34,688       | 4       | 1,450,323  | 13      | 17.9                  |
| Farm or domestic use         | 114,562      | 5       | 251,011      | 8       | 336,279   | 12      | 189,497      | 10      | 144,534      | 15      | 1,035,883  | 10      | 7.9                   |
| Esthetic enjoyment           | 253,673      | 11      | 271,929      | 9       | 280,233   | 12      | 216,568      | 12      | 104,064      | 11      | 1,126,467  | 10      | 7.9                   |
| Part of farm                 | 98,196       | 4       | 153,394      | 5       | 224,186   | 9       | 500,813      | 27      | 202,349      | 22      | 1,178,938  | 11      | 7.0                   |
| Part of residence            | 180,026      | 7       | 313,764      | 10      | 249,096   | 11      | 128,587      | 7       | 98,283       | 11      | 969,756    | 9       | 8.5                   |
| Estate to pass on            | 106,379      | 4       | 118,533      | 4       | 62,274    | 3       | 60,910       | 3       | 28,907       | 3       | 377,003    | 4       | 13.9                  |
| Other                        | 98,647       | 4       | 171,009      | 5       | 62,274    | 3       | 54,142       | 3       | 17,344       | 2       | 403,416    | 4       | 22.6                  |
| No answer                    | 40,915       | 2       | 77,976       | 2       | 68,501    | 3       | 40,606       | 2       | 28,907       | 3       | 256,905    | 2       | 16.4                  |
| Total                        | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     | 0.3                   |

Table 17.--Estimated number of private owners and acres of timberland owned  
by form of ownership and harvest history, Wisconsin, 1997

| Form of<br>ownership | Harvest history |         |                   |                            |         |                   |            |         |                   |
|----------------------|-----------------|---------|-------------------|----------------------------|---------|-------------------|------------|---------|-------------------|
|                      | Harvesters      |         | Sampling<br>error | Nonharvesters <sup>1</sup> |         | Sampling<br>error | Total      |         | Sampling<br>error |
|                      | Number          | Percent | Percent           | Number                     | Percent | Percent           | Number     | Percent | Percent           |
| Owners               |                 |         |                   |                            |         |                   |            |         |                   |
| Individual           | 115,443         | 96      | 5.4               | 133,212                    | 94      | 11.6              | 248,655    | 95      | 6.5               |
| Partnership          | 1,872           | 2       | 21.8              | 5,588                      | 4       | 53.0              | 7,460      | 3       | 40.0              |
| Corporation          | 1,332           | 1       | 22.4              | 2,615                      | 2       | 39.3              | 3,947      | 1       | 27.0              |
| Clubs/Assn.          | 378             | **      | 58.5              | 505                        | **      | 89.4              | 883        | **      | 57.0              |
| Other                | 1,125           | 1       | 41.9              | 164                        | **      | 64.2              | 1,289      | 1       | 37.4              |
| Total                | 120,150         | 100     | 5.2               | 142,084                    | 100     | 11.1              | 262,234    | 100     | 6.2               |
| Acres owned          |                 |         |                   |                            |         |                   |            |         |                   |
| Individual           | 5,963,620       | 76      | 3.5               | 2,674,181                  | 89      | 5.1               | 8,637,801  | 80      | 2.9               |
| Partnership          | 293,589         | 4       | 17.7              | 167,816                    | 5       | 20.1              | 461,405    | 4       | 13.4              |
| Corporation          | 1,391,915       | 18      | 19.0              | 113,007                    | 4       | 25.3              | 1,504,922  | 14      | 17.5              |
| Clubs/Assn.          | 65,359          | 1       | 33.8              | 27,705                     | 1       | 50.5              | 93,064     | 1       | 28.1              |
| Other                | 95,485          | 1       | 28.2              | 19,223                     | 1       | 57.8              | 114,708    | 1       | 25.4              |
| Total                | 7,809,968       | 100     | 1.9               | 3,001,932                  | 100     | 4.8               | 10,811,900 | 100     | 0.3               |

<sup>1</sup> Also includes those who did not answer.

\*\* Less than 0.5 percent.

Table 18.--Estimated number of private owners and acres of timberland owned  
by occupation and harvest history, Wisconsin, 1997

| Occupation                   | Harvest history |         |                  |               |         |                  |            |         |                  |
|------------------------------|-----------------|---------|------------------|---------------|---------|------------------|------------|---------|------------------|
|                              | Harvesters      |         | Sampling         | Nonharvesters |         | Sampling         | All owners |         | Sampling         |
|                              | Number          | Percent | error<br>Percent | Number        | Percent | error<br>Percent | Number     | Percent | error<br>Percent |
|                              |                 |         |                  |               |         |                  |            |         |                  |
| Owners                       |                 |         |                  |               |         |                  |            |         |                  |
| Professional                 | 13,201          | 11      | 20.7             | 14,096        | 10      | 29.6             | 27,297     | 10      | 18.2             |
| Executive                    | 11,092          | 9       | 17.2             | 11,499        | 8       | 31.2             | 22,591     | 9       | 17.9             |
| Other white collar           | 2,626           | 2       | 23.7             | 2,375         | 2       | 27.8             | 5,001      | 2       | 18.0             |
| Skilled trade                | 8,484           | 7       | 14.8             | 18,855        | 13      | 28.4             | 27,339     | 10      | 20.0             |
| Other blue collar            | 9,012           | 8       | 17.8             | 11,207        | 8       | 24.6             | 20,219     | 8       | 15.6             |
| Farmers                      | 23,305          | 19      | 13.1             | 11,276        | 8       | 27.6             | 34,581     | 13      | 12.5             |
| Service worker               | 3,715           | 3       | 39.3             | 2,816         | 2       | 41.4             | 6,531      | 3       | 28.5             |
| Homemaker                    | 969             | 1       | 54.4             | 7,432         | 5       | 93.8             | 8,401      | 3       | 83.2             |
| Retired                      | 33,245          | 28      | 11.8             | 37,754        | 27      | 25.3             | 70,999     | 27      | 14.5             |
| Corporate; Partnership, etc. | 4,707           | 4       | 15.2             | 8,872         | 6       | 35.6             | 13,579     | 5       | 23.8             |
| No answer                    | 9,794           | 8       | 20.4             | 15,902        | 11      | 36.6             | 25,696     | 10      | 23.9             |
| Total                        | 120,150         | 100     | 5.2              | 142,084       | 100     | 11.1             | 262,234    | 100     | 6.2              |
| Acres Owned                  |                 |         |                  |               |         |                  |            |         |                  |
| Professional                 | 625,163         | 8       | 10.7             | 336,527       | 11      | 14.2             | 961,690    | 8       | 8.6              |
| Executive                    | 626,686         | 8       | 10.6             | 408,846       | 14      | 12.9             | 1,035,532  | 7       | 8.2              |
| Other white collar           | 198,925         | 2       | 18.8             | 107,910       | 4       | 25.2             | 306,835    | 4       | 15.1             |
| Skilled trade                | 483,710         | 6       | 12.1             | 333,219       | 11      | 14.5             | 816,929    | 6       | 9.4              |
| Other blue collar            | 491,782         | 6       | 12.2             | 260,381       | 9       | 16.1             | 752,163    | 6       | 9.8              |
| Farmers                      | 1,230,106       | 16      | 6.9              | 237,644       | 8       | 16.7             | 1,467,750  | 6       | 6.3              |
| Service worker               | 116,789         | 1       | 23.5             | 93,819        | 3       | 26.9             | 210,608    | 1       | 17.7             |
| Homemaker                    | 43,511          | 1       | 41.2             | 26,400        | 1       | 50.2             | 69,911     | 2       | 31.9             |
| Retired                      | 1,762,566       | 23      | 6.5              | 705,670       | 23      | 9.7              | 2,468,236  | 25      | 5.5              |
| Corporate; Partnership, etc. | 1,846,348       | 24      | 13.8             | 327,749       | 11      | 11.6             | 2,174,097  | 27      | 11.6             |
| No answer                    | 384,382         | 5       | 13.4             | 163,767       | 5       | 11.3             | 548,149    | 8       | 11.3             |
| Total                        | 7,809,968       | 100     | 1.9              | 3,001,932     | 100     | 4.8              | 10,811,900 | 100     | 0.3              |

Table 19.--Estimated number of harvesters and acres of timberland harvested  
by year of last harvest, Wisconsin, 1997

| Year since<br>last harvest | Owners  |         | Acres owned |         |
|----------------------------|---------|---------|-------------|---------|
|                            | Number  | Percent | Number      | Percent |
| 1990-1997                  | 98,267  | 82      | 6,908,276   | 87      |
| 1980-1989                  | 14,978  | 12      | 613,602     | 8       |
| 1970-1979                  | 2,885   | 2       | 135,811     | 2       |
| 1960-1969                  | 683     | 1       | 47,877      | 1       |
| Before 1959                | 41      | **      | 8,183       | **      |
| No year given              | 3,296   | 3       | 96,219      | 1       |
| Total                      | 120,150 | 100     | 7,809,968   | 100     |

\*\* Less than 0.5 percent.

Table 20.--Estimated number of harvesters and acres of timberland owned  
by reason for harvesting and Forest Survey Unit, Wisconsin, 1997

| Reason for<br>harvesting | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units |         | Sampling<br>error (%) |
|--------------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|-----------|---------|-----------------------|
|                          | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number    | Percent |                       |
| Harvesters               |              |         |              |         |           |         |              |         |              |         |           |         |                       |
| Mature timber            | 5,826        | 26      | 7,180        | 30      | 5,171     | 17      | 8,125        | 38      | 3,005        | 14      | 29,307    | 24      | 8.1                   |
| Good price               | 670          | 3       | 1,656        | 7       | 1,231     | 4       | 1,166        | 5       | 952          | 4       | 5,675     | 5       | 28.1                  |
| Land clearing            | 3,181        | 14      | 1,138        | 5       | 2,855     | 9       | 1,173        | 6       | 1,927        | 9       | 10,274    | 8       | 36.4                  |
| Needed money             | 1,231        | 6       | 742          | 3       | 2,417     | 8       | 2,419        | 11      | 1,059        | 5       | 7,868     | 6       | 20.2                  |
| For own use              | 4,758        | 22      | 6,065        | 25      | 6,309     | 20      | 2,715        | 13      | 5,302        | 25      | 25,149    | 21      | 10.6                  |
| Timber salvage           | 2,147        | 10      | 2,881        | 12      | 4,688     | 15      | 712          | 3       | 3,626        | 17      | 14,054    | 12      | 15.6                  |
| Wildlife habitat         | 372          | 2       | 647          | 3       | 949       | 3       | 1,102        | 5       | 61           | **      | 3,131     | 3       | 33.9                  |
| Improve rec./esthetics   | 246          | 1       | -            | -       | 105       | **      | 181          | 1       | 128          | 1       | 660       | 1       | 58.9                  |
| Cultural treatment       | 2,577        | 12      | 1,333        | 5       | 3,972     | 13      | 1,516        | 7       | 3,862        | 18      | 13,260    | 11      | 17.9                  |
| Other                    | 649          | 3       | 1,696        | 7       | 1,887     | 6       | 1,485        | 7       | 4            | **      | 5,721     | 5       | 29.2                  |
| No reason given          | 200          | 1       | 962          | 3       | 1,593     | 5       | 669          | 3       | 1,627        | 7       | 5,051     | 4       | 33.1                  |
| Total                    | 21,857       | 100     | 24,300       | 100     | 31,177    | 100     | 21,263       | 100     | 21,553       | 100     | 120,150   | 100     | 5.2                   |
| Acres Owned              |              |         |              |         |           |         |              |         |              |         |           |         |                       |
| Mature timber            | 519,812      | 27      | 723,462      | 31      | 361,189   | 22      | 629,400      | 45      | 115,627      | 23      | 2,349,490 | 30      | 5.6                   |
| Good price               | 24,549       | 1       | 64,879       | 3       | 37,364    | 2       | 87,982       | 6       | 34,688       | 7       | 249,462   | 3       | 16.4                  |
| Land clearing            | 40,915       | 2       | 76,698       | 3       | 56,047    | 3       | 27,071       | 2       | 5,781        | 1       | 206,512   | 3       | 18.5                  |
| Needed money             | 65,464       | 4       | 62,752       | 3       | 130,775   | 8       | 175,961      | 13      | 17,344       | 3       | 452,296   | 6       | 12.1                  |
| For own use              | 496,221      | 26      | 674,962      | 29      | 408,572   | 25      | 142,123      | 10      | 138,753      | 27      | 1,860,631 | 24      | 7.7                   |
| Timber salvage           | 171,843      | 9       | 181,288      | 8       | 180,594   | 11      | 67,677       | 5       | 69,376       | 14      | 670,778   | 9       | 10.3                  |
| Wildlife habitat         | 57,281       | 3       | 97,616       | 4       | 74,729    | 5       | 27,071       | 2       | 5,781        | 1       | 262,478   | 3       | 6.4                   |
| Improve rec./esthetics   | 16,366       | 1       | -            | -       | 6,227     | **      | 20,304       | 1       | 5,781        | 1       | 48,678    | 1       | 50.5                  |
| Cultural treatment       | 440,673      | 23      | 306,610      | 13      | 273,796   | 17      | 94,748       | 7       | 80,939       | 16      | 1,196,766 | 15      | 16.6                  |
| Other                    | 67,281       | 3       | 97,616       | 4       | 68,501    | 4       | 101,517      | 7       | 5,781        | 1       | 340,696   | 4       | 19.8                  |
| No reason given          | 24,549       | 1       | 41,835       | 2       | 49,819    | 3       | 27,071       | 2       | 28,907       | 6       | 172,181   | 2       | 19.7                  |
| Total                    | 1,924,954    | 100     | 2,327,718    | 100     | 1,647,613 | 100     | 1,400,925    | 100     | 508,758      | 100     | 7,809,968 | 100     | 1.9                   |

\*\* Less than 0.5 percent.

Table 21.--Estimated number of harvesters and acres of timberland owned by reason for harvesting and form of ownership, Wisconsin, 1997

| Reason for harvesting  | Form of ownership |         |           |         |            |         |           |         |         |         |           |         |
|------------------------|-------------------|---------|-----------|---------|------------|---------|-----------|---------|---------|---------|-----------|---------|
|                        | Forest industry   |         | Farmer    |         | Individual |         | Corporate |         | Other   |         | All forms |         |
|                        | Number            | Percent | Number    | Percent | Number     | Percent | Number    | Percent | Number  | Percent | Number    | Percent |
| Harvesters             |                   |         |           |         |            |         |           |         |         |         |           |         |
| Mature timber          | 235               | 52      | 11,881    | 27      | 15,729     | 22      | 241       | 27      | 1,221   | 41      | 29,307    | 24      |
| Good price             | -                 | -       | 1,617     | 4       | 3,925      | 6       | 49        | 6       | 84      | 3       | 5,675     | 5       |
| Land clearing          | -                 | -       | 2,149     | 5       | 7,740      | 11      | 13        | 1       | 372     | 13      | 10,274    | 8       |
| Needed money           | -                 | -       | 5,081     | 11      | 2,409      | 3       | 222       | 25      | 156     | 5       | 7,868     | 6       |
| For own use            | 198               | 44      | 10,183    | 23      | 14,572     | 20      | 23        | 3       | 173     | 6       | 25,193    | 21      |
| Timber salvage         | -                 | -       | 2,607     | 6       | 11,305     | 16      | 103       | 12      | 39      | 1       | 14,054    | 12      |
| Wildlife habitat       | -                 | -       | 1,204     | 3       | 1,735      | 2       | 56        | 6       | 136     | 5       | 3,131     | 3       |
| Improve rec./esthetics | -                 | -       | 166       | **      | 494        | 1       | -         | -       | -       | -       | 660       | 1       |
| Cultural treatment     | 17                | 4       | 6,170     | 14      | 6,707      | 9       | 151       | 17      | 215     | 7       | 13,260    | 11      |
| Other                  | -                 | -       | 1,732     | 4       | 3,667      | 5       | 24        | 3       | 298     | 10      | 5,721     | 5       |
| No reason given        | -                 | -       | 1,568     | 3       | 3,233      | 5       | -         | -       | 250     | 9       | 5,051     | 4       |
| Total                  | 450               | 100     | 44,358    | 100     | 71,516     | 100     | 882       | 100     | 2,944   | 100     | 120,650   | 100     |
| Acres Owned            |                   |         |           |         |            |         |           |         |         |         |           |         |
| Mature timber          | 76,136            | 7       | 953,264   | 36      | 1,066,712  | 31      | 121,000   | 39      | 132,378 | 38      | 2,349,490 | 30      |
| Good price             | -                 | -       | 97,403    | 4       | 130,410    | 3       | 5,781     | 2       | 15,868  | 5       | 249,462   | 3       |
| Land clearing          | -                 | -       | 105,370   | 4       | 86,732     | 2       | 6,227     | 2       | 8,183   | 2       | 206,512   | 3       |
| Needed money           | -                 | -       | 298,529   | 11      | 134,340    | 4       | 13,200    | 4       | 6,227   | 2       | 452,296   | 6       |
| For own use            | 661,406           | 62      | 518,732   | 20      | 647,101    | 19      | 8,183     | 3       | 25,209  | 7       | 1,860,631 | 24      |
| Timber salvage         | -                 | -       | 191,963   | 7       | 440,320    | 13      | 23,339    | 8       | 15,156  | 4       | 670,778   | 9       |
| Wildlife habitat       | -                 | -       | 31,772    | 1       | 166,017    | 5       | 30,106    | 10      | 34,583  | 10      | 262,478   | 3       |
| Improve rec./esthetics | -                 | -       | 12,549    | **      | 36,129     | 1       | -         | -       | -       | -       | 48,678    | 1       |
| Cultural treatment     | 329,277           | 31      | 252,138   | 10      | 491,462    | 14      | 56,555    | 18      | 67,334  | 20      | 1,196,766 | 15      |
| Other                  | -                 | -       | 73,234    | 3       | 202,817    | 6       | 43,262    | 14      | 21,383  | 6       | 340,696   | 4       |
| No reason given        | -                 | -       | 78,904    | 3       | 73,850     | 2       | -         | -       | 19,427  | 6       | 172,181   | 2       |
| Total                  | 1,066,819         | 100     | 2,613,858 | 100     | 3,475,890  | 100     | 307,653   | 100     | 345,748 | 100     | 7,809,968 | 100     |

\*\* Less than 0.5 percent.

Table 22.--Estimated number of private owners on whose land products have been harvested and acres of timberland owned by timber products harvested and size class of ownership, Wisconsin, 1997 <sup>1</sup>

| Timber product     | Forest industry |         | Nonindustrial private owners |         |           |         |         |         |                |         |
|--------------------|-----------------|---------|------------------------------|---------|-----------|---------|---------|---------|----------------|---------|
|                    | All acres       |         | Ownership size class (acres) |         |           |         |         |         |                |         |
|                    |                 |         | 1-49                         |         | 50-499    |         | 500+    |         | All harvesters |         |
|                    | Number          | Percent | Number                       | Percent | Number    | Percent | Number  | Percent | Number         | Percent |
| Owners             |                 |         |                              |         |           |         |         |         |                |         |
| Fuelwood personal  | 51              | 11      | 62,601                       | 80      | 30,671    | 75      | 572     | 68      | 93,937         | 78      |
| Fuelwood sale      | 38              | 8       | 2,624                        | 3       | 4,055     | 10      | 107     | 13      | 6,824          | 6       |
| Saw logs           | 450             | 100     | 21,826                       | 28      | 21,412    | 50      | 712     | 85      | 44,400         | 37      |
| Pulpwood           | 289             | 64      | 18,422                       | 24      | 21,041    | 50      | 610     | 72      | 40,362         | 34      |
| Other personal     | 122             | 27      | 17,212                       | 9       | 11,130    | 27      | 305     | 36      | 28,769         | 24      |
| Christmas trees    | 26              | 6       | 1,154                        | 1       | 1,776     | 4       | 47      | 6       | 3,003          | 3       |
| Other product sale | 3               | 1       | 880                          | **      | 1,021     | 3       | 12      | 1       | 1,916          | 2       |
| Don't know         | -               | -       | 713                          | **      | -         | -       | 16      | 2       | 729            | 1       |
| All harvesters     | 450             |         | 77,967                       |         | 40,891    |         | 842     |         | 120,150        |         |
| All owners         | 450             |         | 200,426                      |         | 60,401    |         | 957     |         | 262,234        |         |
| Acres Owned        |                 |         |                              |         |           |         |         |         |                |         |
| Fuelwood personal  | 605,221         | 22      | 1,221,532                    | 41      | 3,284,547 | 74      | 431,507 | 60      | 5,543,004      | 71      |
| Fuelwood sale      | 86,381          | 3       | 74,529                       | 2       | 413,896   | 9       | 141,735 | 20      | 716,575        | 9       |
| Saw logs           | 1,066,819       | 100     | 556,600                      | 18      | 2,498,307 | 57      | 619,693 | 85      | 4,741,679      | 61      |
| Pulpwood           | 1,028,521       | 37      | 476,260                      | 16      | 2,451,582 | 55      | 575,093 | 79      | 4,531,643      | 58      |
| Other personal     | 108,721         | 4       | 389,509                      | 13      | 1,267,368 | 29      | 232,552 | 32      | 1,998,228      | 26      |
| Christmas trees    | 730,259         | 26      | 26,195                       | 1       | 244,495   | 6       | 45,328  | 6       | 1,046,316      | 13      |
| Other product sale | 141,385         | 5       | 30,311                       | 1       | 112,808   | 3       | 21,923  | 3       | 306,439        | 4       |
| Don't know         | -               | -       | 15,155                       | **      | -         | -       | 14,951  | 2       | 30,108         | **      |
| All harvesters     | 1,066,819       |         | 1,602,674                    |         | 4,415,318 |         | 725,157 |         | 7,809,968      |         |
| All owners         | 1,066,819       |         | 3,014,260                    |         | 5,929,811 |         | 801,010 |         | 10,811,900     |         |

<sup>1</sup> Items do not add to total because some owners may have harvested more than one product.

\*\* Less than 0.5 percent

Table 23.--Estimated number of private owners that have not harvested and acres of timberland owned by reason for not harvesting and Forest Survey Unit, Wisconsin, 1997

| Reason for not harvesting | Northeastern |         | Northwestern |         | Central |         | Southwestern |         | Southeastern |         | All nonharvesters |         |
|---------------------------|--------------|---------|--------------|---------|---------|---------|--------------|---------|--------------|---------|-------------------|---------|
|                           | Number       | Percent | Number       | Percent | Number  | Percent | Number       | Percent | Number       | Percent | Number            | Percent |
| Nonharvesters             |              |         |              |         |         |         |              |         |              |         |                   |         |
| No market/price too low   | 205          | 1       | 227          | **      | 2,699   | 9       | 81           | **      | 1,074        | 3       | 4,286             | 3       |
| Trees too small           | 3,130        | 21      | 4,021        | 9       | 2,079   | 7       | 1,778        | 10      | 514          | 2       | 11,522            | 8       |
| Poor quality              | 284          | 2       | 827          | 2       | 530     | 2       | 75           | **      | 2,399        | 7       | 4,115             | 3       |
| Scenery reduced           | 3,720        | 25      | 7,874        | 17      | 6,562   | 22      | 1,504        | 9       | 6,360        | 19      | 26,020            | 18      |
| Destroy hunting           | 2,733        | 18      | 2,720        | 6       | 3,809   | 13      | 1,881        | 11      | 981          | 3       | 12,124            | 9       |
| Distrust loggers          | 71           | **      | 271          | 1       | 694     | 2       | 263          | 2       | 715          | 2       | 2,014             | 1       |
| Opposed to harvest        | 723          | 5       | 1,544        | 3       | 5,237   | 17      | 2,287        | 14      | 12,530       | 38      | 22,321            | 16      |
| Low volume                | 684          | 5       | 1,523        | 3       | 2,879   | 9       | 1,437        | 9       | 2,546        | 8       | 9,069             | 6       |
| Small area                | -            | -       | 10,460       | 23      | 2,024   | 7       | 6,769        | 40      | 3,214        | 10      | 22,467            | 16      |
| Not enough knowledge      | 726          | 5       | 3,082        | 7       | 1,063   | 3       | 442          | 3       | 1,118        | 3       | 6,431             | 5       |
| Other                     | 1,967        | 13      | 4,333        | 9       | 2,275   | 7       | 167          | 1       | 344          | 1       | 9,086             | 6       |
| No answer                 | 818          | 5       | 9,479        | 20      | 721     | 2       | 202          | 1       | 1,409        | 4       | 12,629            | 9       |
| Total                     | 15,061       | 100     | 46,361       | 100     | 30,572  | 100     | 16,886       | 100     | 33,204       | 100     | 142,084           | 100     |
| Acres Owned               |              |         |              |         |         |         |              |         |              |         |                   |         |
| No market/price too low   | 8,183        | 2       | 27,890       | 3       | 12,454  | 2       | 13,535       | 3       | 17,344       | 4       | 79,406            | 2       |
| Trees too small           | 98,196       | 19      | 97,616       | 12      | 112,093 | 15      | 87,980       | 19      | 34,688       | 8       | 430,573           | 14      |
| Poor quality              | 24,549       | 5       | 20,918       | 2       | 24,910  | 3       | 6,768        | 1       | 34,688       | 8       | 111,833           | 4       |
| Scenery reduced           | 98,196       | 19      | 160,368      | 19      | 93,411  | 13      | 81,213       | 17      | 63,595       | 15      | 496,783           | 17      |
| Destroy hunting           | 114,562      | 23      | 160,368      | 19      | 124,548 | 17      | 81,211       | 17      | 34,690       | 9       | 515,379           | 17      |
| Distrust loggers          | 16,366       | 3       | 27,890       | 3       | 18,682  | 2       | 27,072       | 6       | 28,907       | 7       | 118,917           | 4       |
| Opposed to harvest        | 40,915       | 8       | 90,643       | 11      | 149,457 | 20      | 81,213       | 17      | 92,502       | 22      | 454,730           | 15      |
| Low volume                | 32,732       | 7       | 27,890       | 3       | 56,047  | 8       | 47,374       | 10      | 34,688       | 8       | 198,731           | 7       |
| Small area                | -            | -       | 13,945       | 2       | 18,682  | 2       | 6,768        | 1       | 17,344       | 4       | 56,739            | 2       |
| Not enough knowledge      | 32,732       | 7       | 48,808       | 6       | 74,729  | 10      | 27,071       | 6       | 28,908       | 7       | 212,248           | 7       |
| Other                     | 32,732       | 7       | 104,588      | 13      | 37,364  | 5       | 13,535       | 3       | 17,344       | 4       | 205,563           | 7       |
| No answer                 | 8,183        | 2       | 57,058       | 7       | 24,910  | 3       | 13,535       | 3       | 17,344       | 4       | 121,030           | 4       |
| Total                     | 507,346      | 100     | 837,982      | 100     | 747,287 | 100     | 487,275      | 100     | 422,042      | 100     | 3,001,932         | 100     |

\*\* Less than 0.5 percent.

Table 24.--Estimated number of private owners that have not harvested and acres of timberland owned by reason for not harvesting and form of ownership, Wisconsin, 1997

| Reason for<br>not harvesting | Forest industry |         | Farmer  |         | Individual |         | Corporate |         | Other   |         | All nonharvesters |         |
|------------------------------|-----------------|---------|---------|---------|------------|---------|-----------|---------|---------|---------|-------------------|---------|
|                              | Number          | Percent | Number  | Percent | Number     | Percent | Number    | Percent | Number  | Percent | Number            | Percent |
| Nonharvesters                |                 |         |         |         |            |         |           |         |         |         |                   |         |
| No market/price too low      | -               | -       | 3,220   | 9       | 1,066      | 1       | -         | -       | -       | -       | 4,286             | 3       |
| Trees too small              | -               | -       | 3,651   | 10      | 6,973      | 7       | 58        | 4       | 840     | 15      | 11,522            | 8       |
| Poor quality                 | -               | -       | 1,137   | 3       | 2,881      | 3       | 22        | 1       | 75      | 1       | 4,115             | 3       |
| Scenery reduced              | -               | -       | 3,064   | 9       | 21,980     | 22      | 778       | 46      | 197     | 4       | 26,019            | 18      |
| Destroy hunting              | -               | -       | 1,276   | 4       | 10,176     | 10      | 457       | 27      | 212     | 4       | 12,121            | 9       |
| Distrust loggers             | -               | -       | 597     | 2       | 1,398      | 1       | -         | -       | 20      | **      | 2,015             | 1       |
| Opposed to harvest           | -               | -       | 6,751   | 19      | 14,800     | 15      | 78        | 5       | 692     | 12      | 22,321            | 16      |
| Low volume                   | -               | -       | 2,956   | 8       | 6,044      | 6       | -         | -       | 69      | 1       | 9,069             | 6       |
| Small area                   | -               | -       | 8,712   | 25      | 10,865     | 11      | -         | -       | 2,891   | 52      | 22,468            | 16      |
| Not enough knowledge         | -               | -       | 1,186   | 3       | 4,744      | 5       | 193       | 11      | 309     | 6       | 6,432             | 5       |
| Other                        | -               | -       | 435     | 1       | 8,268      | 8       | 102       | 6       | 281     | 5       | 9,086             | 6       |
| No answer                    | -               | -       | 2,129   | 6       | 10,501     | 11      | -         | -       | -       | -       | 12,630            | 9       |
| Total                        | -               | -       | 35,114  | 100     | 99,696     | 100     | 1,688     | 100     | 5,586   | 100     | 142,084           | 100     |
| Acres owned                  |                 |         |         |         |            |         |           |         |         |         |                   |         |
| No market/price too low      | -               | -       | 38,298  | 5       | 41,110     | 2       | -         | -       | -       | -       | 79,415            | 2       |
| Trees too small              | -               | -       | 130,300 | 17      | 257,935    | 13      | 5,781     | 7       | 36,557  | 21      | 430,631           | 14      |
| Poor quality                 | -               | -       | 25,527  | 3       | 72,565     | 4       | 6,973     | 9       | 6,768   | 4       | 111,853           | 4       |
| Scenery reduced              | -               | -       | 106,961 | 14      | 361,336    | 18      | 14,951    | 19      | 13,536  | 8       | 496,843           | 17      |
| Destroy hunting              | -               | -       | 53,249  | 7       | 418,079    | 21      | 23,134    | 29      | 20,918  | 12      | 515,449           | 17      |
| Distrust loggers             | -               | -       | 38,298  | 5       | 74,391     | 4       | -         | -       | 6,227   | 4       | 118,929           | 4       |
| Opposed to harvest           | -               | -       | 149,336 | 20      | 280,836    | 14      | 6,227     | 8       | 18,331  | 10      | 454,782           | 15      |
| Low volume                   | -               | -       | 64,288  | 9       | 128,215    | 6       | -         | -       | 6,227   | 3       | 198,748           | 7       |
| Small area                   | -               | -       | 25,004  | 3       | 25,953     | 1       | -         | -       | 5,781   | 3       | 56,745            | 2       |
| Not enough knowledge         | -               | -       | 39,414  | 6       | 139,645    | 7       | 5,781     | 7       | 27,406  | 16      | 212,282           | 7       |
| Other                        | -               | -       | 25,508  | 3       | 138,947    | 7       | 8,183     | 10      | 32,926  | 19      | 205,603           | 7       |
| No answer                    | -               | -       | 50,958  | 7       | 61,822     | 3       | 8,250     | 10      | -       | -       | 121,050           | 4       |
| Total                        | -               | -       | 747,141 | 100     | 2,000,834  | 100     | 79,280    | 100     | 174,677 | 100     | 3,002,332         | 100     |

\*\* Less than 0.5 percent.

Table 25.--Estimated number of private owners and acres of timberland owned by size class  
and expected time of future harvest and size class of ownership, Wisconsin, 1997

| Expected time of<br>future harvest | Ownership size class (acres) |         |              |         |            |         |             |         | Sampling<br>error<br>Percent |
|------------------------------------|------------------------------|---------|--------------|---------|------------|---------|-------------|---------|------------------------------|
|                                    | 1-49 acres                   |         | 50-499 acres |         | 500+ acres |         | Total acres |         |                              |
|                                    | Number                       | Percent | Number       | Percent | Number     | Percent | Number      | Percent |                              |
| 1-10 years                         | 71,256                       | 35      | 39,010       | 64      | 739        | 71      | 111,005     | 42      | 6.2                          |
| Indefinite                         | 51,810                       | 26      | 15,867       | 26      | 261        | 25      | 67,938      | 26      | 9.8                          |
| Never                              | 63,640                       | 32      | 4,713        | 8       | 30         | 3       | 68,383      | 26      | 19.3                         |
| No answer                          | 13,720                       | 7       | 1,181        | 2       | 7          | 1       | 14,908      | 6       | 37.2                         |
| Total                              | 200,426                      | 100     | 60,771       | 100     | 1,037      | 100     | 262,234     | 100     | 6.2                          |
| Acres owned                        |                              |         |              |         |            |         |             |         |                              |
| 1-10 years                         | 1,360,423                    | 45      | 3,872,014    | 65      | 1,634,520  | 89      | 6,866,957   | 64      | 2.4                          |
| Indefinite                         | 954,727                      | 32      | 1,585,167    | 26      | 155,222    | 9       | 2,695,116   | 25      | 5.1                          |
| Never                              | 598,859                      | 20      | 401,156      | 7       | 23,134     | 1       | 1,023,149   | 9       | 8.1                          |
| No answer                          | 100,250                      | 3       | 111,410      | 2       | 15,018     | 1       | 226,678     | 2       | 17.0                         |
| Total                              | 3,014,259                    | 100     | 5,969,747    | 100     | 1,827,894  | 100     | 10,811,900  | 100     | 0.3                          |

Table 26.--Estimated number of private owners and acres of timberland owned by  
primary reason for owning and expected time of future harvest, Wisconsin, 1997

| Reason for<br>owning | Expected time of future harvest |         |            |         |           |         |           |         |            |         |
|----------------------|---------------------------------|---------|------------|---------|-----------|---------|-----------|---------|------------|---------|
|                      | Next 10 years                   |         | Indefinite |         | Never     |         | No answer |         | All owners |         |
|                      | Number                          | Percent | Number     | Percent | Number    | Percent | Number    | Percent | Number     | Percent |
| Owners               |                                 |         |            |         |           |         |           |         |            |         |
| Land value increase  | 4,484                           | 4       | 3,382      | 5       | 3,950     | 5       | 512       | 3       | 12,328     | 5       |
| Recreation           | 37,184                          | 33      | 18,812     | 28      | 12,162    | 18      | 271       | 2       | 68,429     | 26      |
| Timber production    | 3,054                           | 3       | 746        | 1       | -         | -       | -         | -       | 3,800      | 1       |
| Farm or domestic use | 16,214                          | 15      | 5,302      | 8       | 368       | 1       | 96        | 1       | 21,980     | 8       |
| Esthetic enjoyment   | 14,577                          | 13      | 14,319     | 21      | 20,449    | 30      | 340       | 2       | 49,685     | 19      |
| Part of farm         | 12,897                          | 12      | 10,168     | 15      | 7,815     | 11      | 346       | 2       | 31,226     | 12      |
| Part of residence    | 11,753                          | 11      | 8,797      | 13      | 15,660    | 23      | 43        | **      | 36,253     | 14      |
| Estate to pass on    | 4,809                           | 4       | 2,086      | 3       | 768       | 1       | 387       | 3       | 8,050      | 3       |
| Other                | 2,325                           | 2       | 3,361      | 5       | 416       | 1       | 94        | 1       | 6,196      | 2       |
| No answer            | 3,707                           | 3       | 965        | 1       | 6,797     | 10      | 12,818    | 86      | 24,287     | 9       |
| Total                | 111,004                         | 100     | 67,938     | 100     | 68,385    | 100     | 14,907    | 100     | 262,234    | 100     |
| Acres Owned          |                                 |         |            |         |           |         |           |         |            |         |
| Land investment      | 358,722                         | 5       | 194,914    | 7       | 106,981   | 10      | 18,535    | 8       | 679,152    | 6       |
| Recreation           | 2,093,002                       | 30      | 884,516    | 33      | 335,156   | 33      | 21,383    | 9       | 3,334,057  | 31      |
| Timber production    | 1,381,473                       | 20      | 68,850     | 3       | -         | -       | -         | -       | 1,450,323  | 13      |
| Farm or domestic use | 799,302                         | 12      | 212,023    | 8       | 18,777    | 2       | 5,781     | 2       | 1,035,883  | 10      |
| Esthetic enjoyment   | 503,360                         | 7       | 348,647    | 13      | 259,509   | 25      | 14,951    | 7       | 1,126,467  | 10      |
| Part of farm         | 634,816                         | 9       | 392,326    | 15      | 117,753   | 11      | 34,043    | 14      | 1,178,938  | 11      |
| Part of residence    | 519,949                         | 8       | 332,902    | 12      | 109,932   | 11      | 6,973     | 3       | 969,756    | 9       |
| Estate to pass on    | 237,692                         | 4       | 106,384    | 4       | 25,954    | 3       | 6,973     | 3       | 377,003    | 4       |
| Other                | 258,137                         | 4       | 109,411    | 4       | 22,128    | 2       | 13,740    | 6       | 403,416    | 4       |
| No answer            | 80,504                          | 1       | 35,142     | **      | 26,960    | 3       | 114,299   | 48      | 256,905    | 2       |
| Total                | 6,866,957                       | 100     | 2,685,115  | 100     | 1,023,150 | 100     | 236,678   | 100     | 10,811,900 | 100     |

\*\* Less than 0.5 percent.

Table 27.--Estimated number of non-forest industry owners and acres of timberland owned  
by ownership class and expected time of future harvest, Wisconsin, 1997

| Ownership class       | Expected time of future harvest |         |            |         |           |         |           |         |                       |         |
|-----------------------|---------------------------------|---------|------------|---------|-----------|---------|-----------|---------|-----------------------|---------|
|                       | 1-10 years                      |         | Indefinite |         | Never     |         | No answer |         | All individual owners |         |
|                       | Number                          | Percent | Number     | Percent | Number    | Percent | Number    | Percent | Number                | Percent |
| Owners                |                                 |         |            |         |           |         |           |         |                       |         |
| Farmers               | 41,742                          | 38      | 18,150     | 27      | 17,242    | 25      | 2,339     | 16      | 79,473                | 30      |
| Individual            | 65,027                          | 59      | 46,521     | 69      | 47,236    | 69      | 12,426    | 83      | 171,210               | 66      |
| Corporate             |                                 |         |            |         |           |         |           |         |                       |         |
| (non-forest industry) | 659                             | **      | 1,621      | 2       | 234       | **      | 56        | **      | 2,570                 | 1       |
| Other                 | 3,217                           | 3       | 1,556      | 2       | 3,670     | 6       | 87        | 1       | 8,530                 | 3       |
| Total                 | 110,645                         | 100     | 67,848     | 100     | 68,382    | 100     | 14,908    | 100     | 261,783               | 100     |
| Acres Owned           |                                 |         |            |         |           |         |           |         |                       |         |
| Farmers               | 2,134,763                       | 37      | 898,431    | 34      | 229,268   | 22      | 98,537    | 42      | 3,360,999             | 35      |
| Individual            | 3,109,533                       | 53      | 1,515,948  | 56      | 740,874   | 72      | 110,369   | 46      | 5,476,724             | 56      |
| Corporate             |                                 |         |            |         |           |         |           |         |                       |         |
| (non-forest industry) | 241,559                         | 4       | 109,624    | 4       | 14,951    | 2       | 20,799    | 9       | 386,933               | 4       |
| Other                 | 320,509                         | 6       | 154,886    | 6       | 38,057    | 4       | 6,973     | 3       | 520,425               | 5       |
| Total                 | 5,806,364                       | 100     | 2,678,889  | 100     | 1,023,150 | 100     | 236,678   | 100     | 9,745,081             | 100     |

\*\* Less than 0.5 percent.

Table 28.--Estimated number of private owners and acres of timberland owned  
by occupation and expected time of future harvest, Wisconsin, 1997

| Occupation                   | Expected time of future harvest |         |            |         |           |         |           |         |                       |         | Sampling error<br>Percent |
|------------------------------|---------------------------------|---------|------------|---------|-----------|---------|-----------|---------|-----------------------|---------|---------------------------|
|                              | 1-10 years                      |         | Indefinite |         | Never     |         | No answer |         | All individual owners |         |                           |
|                              | Number                          | Percent | Number     | Percent | Number    | Percent | Number    | Percent | Number                | Percent |                           |
| Owners                       |                                 |         |            |         |           |         |           |         |                       |         |                           |
| Professional                 | 11,411                          | 10      | 9,554      | 14      | 6,023     | 9       | 310       | 2       | 27,298                | 10      | 18.2                      |
| Executive                    | 9,460                           | 9       | 7,462      | 11      | 5,669     | 8       | -         | -       | 22,591                | 9       | 17.9                      |
| Other white collar           | 1,540                           | 1       | 2,012      | 3       | 1,450     | 2       | -         | -       | 5,002                 | 2       | 18.0                      |
| Skilled trade                | 12,990                          | 12      | 9,530      | 14      | 4,662     | 7       | 156       | 1       | 27,338                | 10      | 20.0                      |
| Other blue collar            | 12,354                          | 11      | 3,958      | 6       | 3,907     | 6       | -         | -       | 20,219                | 8       | 15.6                      |
| Farmers                      | 23,641                          | 21      | 6,829      | 10      | 3,858     | 6       | 253       | 2       | 34,581                | 13      | 12.5                      |
| Service worker               | 1,835                           | 2       | 2,907      | 4       | 1,789     | 3       | -         | -       | 6,581                 | 3       | 28.5                      |
| Homemaker                    | 702                             | 1       | 629        | 1       | 7,069     | 10      | -         | -       | 8,400                 | 3       | 83.2                      |
| Retired                      | 25,786                          | 23      | 16,714     | 25      | 26,957    | 39      | 1,541     | 10      | 70,998                | 27      | 14.5                      |
| Corporate; Partnership, etc. | 5,295                           | 5       | 3,694      | 5       | 4,136     | 6       | 454       | 3       | 13,579                | 5       | 23.9                      |
| No answer                    | 5,992                           | 5       | 4,648      | 7       | 2,863     | 4       | 12,194    | 82      | 25,697                | 10      | 23.8                      |
| Total                        | 111,006                         | 100     | 67,937     | 100     | 68,383    | 100     | 14,908    | 100     | 262,234               | 100     | 6.2                       |
| Sampling error (%)           | 6.2                             |         | 9.2        |         | 19.3      |         | 37.2      |         | 6.2                   |         |                           |
| Acres Owned                  |                                 |         |            |         |           |         |           |         |                       |         |                           |
| Professional                 | 600,151                         | 9       | 237,607    | 9       | 110,193   | 11      | 13,740    | 6       | 961,691               | 9       | 8.6                       |
| Executive                    | 617,926                         | 9       | 308,932    | 12      | 108,674   | 10      | -         | -       | 1,035,532             | 9       | 8.2                       |
| Other white collar           | 130,559                         | 2       | 117,359    | 4       | 58,917    | 6       | -         | -       | 306,835               | 3       | 15.1                      |
| Skilled trade                | 479,515                         | 7       | 225,920    | 9       | 105,267   | 10      | 6,227     | 3       | 816,929               | 8       | 9.4                       |
| Other blue collar            | 555,575                         | 8       | 144,959    | 5       | 51,628    | 5       | -         | -       | 752,162               | 7       | 9.8                       |
| Farmers                      | 1,026,590                       | 15      | 344,577    | 13      | 70,294    | 7       | 26,290    | 11      | 1,467,750             | 13      | 6.3                       |
| Service worker               | 117,758                         | 2       | 57,726     | 2       | 35,123    | 3       | -         | -       | 210,607               | 2       | 17.7                      |
| Homemaker                    | 40,810                          | 1       | 15,155     | 1       | 13,945    | 1       | -         | -       | 69,910                | 1       | 31.9                      |
| Retired                      | 1,303,832                       | 19      | 756,932    | 28      | 347,046   | 34      | 60,426    | 26      | 2,468,237             | 23      | 5.5                       |
| Corporate; Partnership, etc. | 1,761,783                       | 26      | 319,527    | 12      | 58,789    | 6       | 33,999    | 14      | 2,174,098             | 20      | 11.3                      |
| No answer                    | 232,458                         | 3       | 156,422    | 6       | 63,274    | 6       | 95,995    | 40      | 548,149               | 5       | 11.6                      |
| Total                        | 6,866,957                       | 100     | 2,685,116  | 100     | 1,023,150 | 100     | 236,677   | 100     | 10,811,900            | 100     | 0.3                       |
| Sampling error (%)           | 2.4                             |         | 5.1        |         | 8.1       |         | 17.0      |         | 0.3                   |         |                           |

Table 29.--Estimated number of private owners and acres of timberland owned by size class of ownership and agency that owners would contact for forestry assistance, Wisconsin, 1997

| Agency                      | Forest industry |         | Nonindustrial private owners |         |              |         |            |         |            |         |                |
|-----------------------------|-----------------|---------|------------------------------|---------|--------------|---------|------------|---------|------------|---------|----------------|
|                             |                 |         | Ownership size class (acres) |         |              |         |            |         |            |         |                |
|                             |                 |         | 1-49 acres                   |         | 50-499 acres |         | 500+ acres |         | All owners |         | Sampling error |
|                             | Number          | Percent | Number                       | Percent | Number       | Percent | Number     | Percent | Number     | Percent | Percent        |
| Owners                      |                 |         |                              |         |              |         |            |         |            |         |                |
| Consultant forester         | 35              | 8       | 6,461                        | 3       | 3,705        | 6       | 105        | 11      | 10,306     | 4       | 18.0           |
| Industrial forester         | 122             | 27      | 879                          | **      | 1,359        | 2       | 5          | 1       | 2,365      | 1       | 24.3           |
| State employee              | 61              | 14      | 30,519                       | 15      | 14,290       | 24      | 165        | 17      | 45,035     | 17      | 12.6           |
| Extension service           | -               | -       | 13,815                       | 7       | 3,310        | 5       | 35         | 4       | 17,160     | 7       | 18.4           |
| Natural Res. Conserv. Serv. | -               | -       | 23,443                       | 12      | 4,809        | 8       | 66         | 7       | 28,318     | 11      | 16.6           |
| Other                       | 1               | **      | 1,399                        | 1       | 952          | 2       | 29         | 3       | 2,381      | 1       | 26.9           |
| Multiple sources            | 222             | 49      | 14,682                       | 7       | 15,859       | 26      | 468        | 49      | 31,231     | 12      | 14.2           |
| Don't know                  | -               | -       | 80,217                       | 40      | 13,132       | 22      | 57         | 6       | 93,406     | 35      | 10.7           |
| No answer                   | 9               | 2       | 29,011                       | 15      | 2,985        | 5       | 27         | 2       | 32,032     | 12      | 21.4           |
| Total                       | 450             | 100     | 200,426                      | 100     | 60,401       | 100     | 957        | 100     | 262,234    | 100     | 6.2            |
| Sampling error (%)          | 39.8            |         | 8.2                          |         | 4.4          |         | 10.9       |         | 6.2        |         |                |
| Acres Owned                 |                 |         |                              |         |              |         |            |         |            |         |                |
| Consultant forester         | 22,128          | 2       | 120,639                      | 4       | 441,940      | 7       | 127,321    | 16      | 712,028    | 7       | 10.5           |
| Industrial forester         | 51,593          | 5       | 25,209                       | 1       | 139,431      | 2       | 6,973      | 1       | 223,206    | 2       | 21.0           |
| State employee              | 595,534         | 56      | 566,714                      | 19      | 1,385,667    | 23      | 129,453    | 16      | 2,677,368  | 25      | 8.7            |
| Extension service           | -               | -       | 225,850                      | 8       | 348,655      | 6       | 20,172     | 3       | 594,691    | 6       | 10.6           |
| Natural Res. Conserv. Serv. | -               | -       | 339,839                      | 11      | 511,927      | 9       | 33,932     | 4       | 885,718    | 8       | 8.7            |
| Other                       | 66,496          | 6       | 40,810                       | 1       | 105,854      | 2       | 30,311     | 4       | 243,471    | 2       | 30.1           |
| Multiple sources            | 288,940         | 27      | 343,161                      | 11      | 1,469,776    | 25      | 389,617    | 49      | 2,491,494  | 23      | 5.7            |
| Don't know                  | -               | -       | 1,034,841                    | 34      | 1,213,554    | 21      | 34,268     | 4       | 2,282,718  | 21      | 6.8            |
| No answer                   | 42,128          | 4       | 317,197                      | 11      | 313,007      | 5       | 28,963     | 3       | 701,295    | 6       | 10.2           |
| Total                       | 1,066,819       | 100     | 3,014,260                    | 100     | 5,929,811    | 100     | 801,010    | 100     | 10,811,900 | 100     | 0.3            |
| Sampling error (%)          | 25.5            |         | 4.5                          |         | 3.6          |         | 10.2       |         | 0.3        |         |                |

\*\*Less than 0.5 percent.

Table 30.--Estimated number of private owners and acres of timberland  
by owners who have requested forest management assistance  
and by size class of ownership, Wisconsin, 1997

| Size class of<br>ownership<br>(acres) | All private<br>owners |         | Owners that<br>requested assist. |         | Percent of<br>size class |
|---------------------------------------|-----------------------|---------|----------------------------------|---------|--------------------------|
|                                       | Number                | Percent | Number                           | Percent | Percent                  |
| Owners                                |                       |         |                                  |         |                          |
| Forest industry<br>(all sizes)        | 450                   | **      | 319                              | **      | 71                       |
| Nonindustrial                         |                       |         |                                  |         |                          |
| 1-49                                  | 200,426               | 76      | 41,137                           | 55      | 21                       |
| 50-499                                | 60,401                | 23      | 32,203                           | 43      | 53                       |
| 500+                                  | 957                   | **      | 821                              | 1       | 86                       |
| Total                                 | 262,234               | 100     | 74,480                           | 100     | 28                       |
| Acres owned                           |                       |         |                                  |         |                          |
| Forest industry<br>(all sizes)        | 1,066,819             | 10      | 981,184                          | 16      | 92                       |
| Nonindustrial                         |                       |         |                                  |         |                          |
| 1-49                                  | 3,014,260             | 28      | 907,252                          | 15      | 30                       |
| 50-499                                | 5,929,811             | 55      | 3,496,527                        | 57      | 59                       |
| 500+                                  | 801,010               | 7       | 706,278                          | 12      | 87                       |
| Total                                 | 10,811,900            | 100     | 6,091,241                        | 100     | 56                       |

\*\* Less than 0.5 percent.

Table 31.--Estimated number of private owners and acres of timberland owned  
by requests for forestry assistance and Forest Survey Unit, Wisconsin, 1997

| Forestry<br>assistance<br>requested | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         |
|-------------------------------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|
|                                     | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |
| Owners                              |              |         |              |         |           |         |              |         |              |         |            |         |
| Yes                                 | 13,998       | 38      | 11,786       | 17      | 15,985    | 26      | 16,772       | 44      | 15,939       | 29      | 74,480     | 28      |
| No                                  | 21,959       | 59      | 49,560       | 70      | 43,732    | 71      | 21,026       | 55      | 36,875       | 67      | 173,152    | 66      |
| No answer                           | 961          | 3       | 9,315        | 13      | 2,032     | 3       | 351          | 1       | 1,943        | 4       | 14,602     | 6       |
| Total                               | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     |
| Acres Owned                         |              |         |              |         |           |         |              |         |              |         |            |         |
| Yes                                 | 1,535,903    | 62      | 1,706,772    | 54      | 1,217,923 | 51      | 1,231,729    | 65      | 398,914      | 43      | 6,091,241  | 56      |
| No                                  | 871,848      | 36      | 1,401,870    | 44      | 1,127,158 | 47      | 629,400      | 33      | 514,542      | 55      | 4,544,818  | 42      |
| No answer                           | 24,549       | 2       | 57,058       | 2       | 49,819    | 2       | 27,071       | 2       | 17,344       | 2       | 175,841    | 2       |
| Total                               | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     |

Table 32.--Estimated number of private owners who have received forest assistance and acres of timberland owned by type of assistance, Wisconsin, 1997

| Type of assistance           | Owners assisted |         | Acres owned |         |
|------------------------------|-----------------|---------|-------------|---------|
|                              | Number          | Percent | Number      | Percent |
| Information about forestry   | 10,500          | 4       | 758,274     | 7       |
| Help with tree planting      | 6,160           | 2       | 501,197     | 5       |
| General forest management    | 10,614          | 4       | 881,228     | 8       |
| Information about wildlife   | 4,484           | 2       | 587,656     | 5       |
| Help with timber sales       | 2,620           | 1       | 214,995     | 2       |
| Help with insect or diseases | 1,261           | **      | 124,063     | 1       |
| Information on taxes         | 16              | **      | 13,740      | **      |
| All types <sup>1</sup>       | 48,771          | 19      | 5,026,489   | 46      |
| No assistance/no answer      | 213,463         | 81      | 5,785,411   | 54      |
| Total                        | 262,234         | 100     | 10,811,900  | 100     |

<sup>1</sup> Columns do not add to total because some owners have received more than one type of assistance.

Table 33.--Estimated number of private owners and acres of timberland owned, by owners who have sought assistance and those who have not, and by agency that would be contacted for future forestry assistance, Wisconsin, 1997

| Agency                      | Sought assistance |         | No assistance |         | No answer |         | All owners |         |
|-----------------------------|-------------------|---------|---------------|---------|-----------|---------|------------|---------|
|                             | Number            | Percent | Number        | Percent | Number    | Percent | Number     | Percent |
| Owners                      |                   |         |               |         |           |         |            |         |
| Consultant forester         | 6,727             | 9       | 3,579         | 2       | -         | -       | 10,306     | 4       |
| Industrial forester         | 958               | 1       | 1,407         | 1       | -         | -       | 2,365      | 1       |
| State employee              | 23,253            | 31      | 21,679        | 13      | 103       | 1       | 45,035     | 17      |
| Extension service           | 2,432             | 3       | 14,728        | 8       | -         | -       | 17,160     | 7       |
| Natural Res. Conserv. Serv. | 8,164             | 11      | 20,155        | 11      | -         | -       | 28,319     | 11      |
| Other                       | 663               | 1       | 1,718         | 1       | -         | -       | 2,381      | 1       |
| Multiple sources            | 23,302            | 31      | 7,928         | 5       | -         | -       | 31,230     | 12      |
| Don't know                  | 8,769             | 12      | 84,365        | 49      | 272       | 2       | 93,406     | 35      |
| No answer                   | 212               | **      | 17,593        | 10      | 14,227    | 97      | 32,032     | 12      |
| Total                       | 74,480            | 100     | 173,152       | 100     | 14,602    | 100     | 262,234    | 100     |
| Acres Owned                 |                   |         |               |         |           |         |            |         |
| Consultant forester         | 483,052           | 8       | 228,975       | 5       | -         | -       | 712,027    | 7       |
| Industrial forester         | 107,455           | 2       | 115,751       | 3       | -         | -       | 223,206    | 2       |
| State employee              | 2,166,203         | 36      | 504,937       | 11      | 6,227     | 4       | 2,677,367  | 25      |
| Extension service           | 171,847           | 3       | 422,831       | 9       | -         | -       | 594,678    | 6       |
| Natural Res. Conserv. Serv. | 472,855           | 8       | 412,842       | 9       | -         | -       | 885,697    | 8       |
| Other                       | 143,194           | 2       | 100,218       | 2       | -         | -       | 243,412    | 2       |
| Multiple sources            | 2,276,604         | 37      | 214,889       | 5       | -         | -       | 2,491,493  | 23      |
| Don't know                  | 250,063           | 4       | 2,017,649     | 44      | 14,952    | 8       | 2,282,664  | 21      |
| No answer                   | 19,968            | **      | 526,726       | 12      | 154,662   | 88      | 701,356    | 6       |
| Total                       | 6,091,241         | 100     | 4,544,818     | 100     | 175,841   | 100     | 10,811,900 | 100     |

\*\*Less than 0.5 percent

Table 34.--Estimated number of private owners and acres of timberland owned by primary reason for owning by harvesters and nonharvesters, Wisconsin, 1997

| Primary reason<br>for owning | Owners  |         | Sampling<br>error | Acres owned |         | Sampling<br>error |
|------------------------------|---------|---------|-------------------|-------------|---------|-------------------|
|                              | Number  | Percent | Percent           | Number      | Percent | Percent           |
| Harvesters                   |         |         |                   |             |         |                   |
| Land investment              | 4,164   | 3       | 18.4              | 394,159     | 5       | 14.0              |
| Recreation                   | 34,320  | 29      | 11.2              | 2,101,395   | 27      | 6.1               |
| Timber production            | 2,978   | 2       | 15.8              | 1,411,056   | 18      | 18.5              |
| Farm of domestic use         | 17,113  | 14      | 11.8              | 884,305     | 11      | 8.6               |
| Esthetic enjoyment           | 15,442  | 13      | 15.2              | 707,182     | 9       | 10.0              |
| Part of farm                 | 15,000  | 12      | 17.4              | 817,296     | 10      | 8.6               |
| Part of residence            | 17,620  | 15      | 17.0              | 692,978     | 9       | 10.2              |
| Estate to pass on            | 4,784   | 4       | 25.8              | 284,694     | 4       | 16.1              |
| Other                        | 4,427   | 4       | 37.0              | 348,101     | 5       | 25.7              |
| No answer                    | 4,302   | 4       | 34.1              | 168,802     | 2       | 20.2              |
| Total                        | 120,150 | 100     | 5.2               | 7,809,968   | 100     | 1.9               |
| Nonharvesters                |         |         |                   |             |         |                   |
| Land investment              | 8,164   | 6       | 21.1              | 284,993     | 10      | 15.7              |
| Recreation                   | 34,109  | 24      | 15.8              | 1,232,661   | 41      | 7.6               |
| Timber production            | 822     | 1       | 68.7              | 39,268      | 1       | 41.2              |
| Farm or domestic use         | 4,867   | 4       | 28.2              | 151,579     | 5       | 21.0              |
| Esthetic enjoyment           | 34,243  | 24      | 27.4              | 419,284     | 14      | 12.8              |
| Part of farm                 | 16,226  | 11      | 21.2              | 361,642     | 12      | 13.1              |
| Part of residence            | 18,633  | 13      | 40.6              | 276,778     | 9       | 15.5              |
| Estate to pass on            | 3,266   | 2       | 43.5              | 92,308      | 3       | 26.9              |
| Other                        | 1,769   | 1       | 48.9              | 55,315      | 2       | 35.7              |
| No answer                    | 19,985  | 14      | 41.1              | 88,104      | 3       | 28.0              |
| Total                        | 142,084 | 100     | 11.1              | 3,001,932   | 100     | 4.8               |
| All Owners                   |         |         |                   |             |         |                   |
| Land investment              | 12,328  | 5       | 15.8              | 679,152     | 6       | 10.5              |
| Recreation                   | 68,429  | 26      | 9.5               | 3,334,056   | 31      | 4.9               |
| Timber production            | 3,800   | 2       | 19.3              | 1,450,324   | 13      | 17.9              |
| Farm of domestic use         | 21,980  | 8       | 11.0              | 1,035,884   | 10      | 7.9               |
| Esthetic enjoyment           | 49,685  | 19      | 19.4              | 1,126,466   | 10      | 7.9               |
| Part of farm                 | 31,226  | 12      | 13.5              | 1,178,938   | 11      | 7.0               |
| Part of residence            | 36,253  | 14      | 22.4              | 969,756     | 9       | 8.5               |
| Estate to pass on            | 8,050   | 3       | 23.3              | 377,002     | 4       | 13.9              |
| Other                        | 6,196   | 2       | 29.8              | 403,416     | 4       | 22.6              |
| No answer                    | 24,287  | 9       | 34.3              | 256,906     | 2       | 16.4              |
| Total                        | 262,234 | 100     | 6.2               | 10,811,900  | 100     | 0.3               |

Table 35.--Estimated number of private owners and acres of timberland owned by primary benefit received in the last 10 years and harvest history, Wisconsin, 1997

| Primary benefit<br>received | Harvest history |         |                    |         |            |         | Sampling<br>error<br>Percent |
|-----------------------------|-----------------|---------|--------------------|---------|------------|---------|------------------------------|
|                             | Harvest         |         | Did not<br>harvest |         | All owners |         |                              |
|                             | Number          | Percent | Number             | Percent | Number     | Percent |                              |
| Owners                      |                 |         |                    |         |            |         |                              |
| Land value increase         | 5,582           | 5       | 9,972              | 7       | 15,554     | 6       | 16.5                         |
| Recreation                  | 32,809          | 27      | 33,364             | 23      | 66,173     | 25      | 9.9                          |
| Timber income               | 6,577           | 5       | -                  | -       | 6,577      | 3       | 18.4                         |
| Farm or domestic use        | 7,961           | 7       | 9,396              | 7       | 17,357     | 7       | 15.8                         |
| Esthetic enjoyment          | 47,754          | 40      | 66,132             | 47      | 113,886    | 43      | 11.3                         |
| Firewood                    | 12,618          | 10      | -                  | -       | 12,618     | 5       | 15.9                         |
| Other                       | 2,036           | 2       | 7,116              | 5       | 9,152      | 3       | 64.0                         |
| No answer                   | 4,813           | 4       | 16,104             | 11      | 20,917     | 8       | 29.4                         |
| Total                       | 120,150         | 100     | 142,084            | 100     | 262,234    | 100     | 6.2                          |
| Acres Owned                 |                 |         |                    |         |            |         |                              |
| Land value increase         | 499,669         | 6       | 317,660            | 11      | 817,329    | 7       | 9.4                          |
| Recreation                  | 2,185,533       | 28      | 1,180,082          | 39      | 3,365,615  | 31      | 4.8                          |
| Timber income               | 1,569,200       | 20      | -                  | -       | 1,569,200  | 15      | 16.6                         |
| Farm or domestic use        | 599,986         | 8       | 200,528            | 7       | 800,514    | 7       | 9.0                          |
| Esthetic enjoyment          | 2,012,511       | 26      | 1,109,210          | 37      | 3,121,721  | 29      | 4.8                          |
| Fuel wood                   | 510,241         | 6       | -                  | -       | 510,241    | 5       | 11.4                         |
| Other                       | 150,493         | 2       | 73,086             | 2       | 223,579    | 2       | 18.0                         |
| No answer                   | 282,335         | 4       | 121,366            | 4       | 403,701    | 4       | 22.2                         |
| Total                       | 7,809,968       | 100     | 3,001,932          | 100     | 10,811,900 | 100     | 0.3                          |

Table 36.--Estimated number of private owners and acres of timberland owned by primary benefit expected in the next 10 years and harvest history, Wisconsin, 1997

| Primary benefit<br>expected | Harvest history |         |                    |         |            |         | Sampling<br>error<br>Percent |
|-----------------------------|-----------------|---------|--------------------|---------|------------|---------|------------------------------|
|                             | Harvest         |         | Did not<br>harvest |         | All owners |         |                              |
|                             | Number          | Percent | Number             | Percent | Number     | Percent |                              |
| Owners                      |                 |         |                    |         |            |         |                              |
| Land value increase         | 10,869          | 9       | 10,774             | 8       | 21,643     | 8       | 12.7                         |
| Recreation                  | 35,710          | 30      | 28,951             | 20      | 64,661     | 25      | 9.6                          |
| Timber income               | 4,920           | 4       | 846                | 1       | 5,766      | 2       | 14.4                         |
| Farm or domestic use        | 7,443           | 6       | 7,885              | 6       | 15,328     | 6       | 14.3                         |
| Esthetic enjoyment          | 40,829          | 34      | 65,733             | 46      | 106,562    | 41      | 12.2                         |
| Firewood                    | 12,000          | 10      | 2,042              | 1       | 14,042     | 5       | 15.6                         |
| Other                       | 1,976           | 2       | 2,218              | 1       | 4,194      | 2       | 22.2                         |
| No answer                   | 6,403           | 5       | 23,635             | 17      | 30,038     | 11      | 28.8                         |
| Total                       | 120,150         | 100     | 142,084            | 100     | 262,234    | 100     | 6.2                          |
| Acres Owned                 |                 |         |                    |         |            |         |                              |
| Land value increase         | 763,292         | 10      | 435,958            | 15      | 1,199,250  | 11      | 7.6                          |
| Recreation                  | 2,242,602       | 29      | 1,086,853          | 36      | 3,329,455  | 31      | 4.8                          |
| Timber income               | 1,609,151       | 20      | 59,216             | 2       | 1,668,367  | 15      | 15.8                         |
| Farm or domestic use        | 552,159         | 7       | 191,481            | 7       | 743,640    | 7       | 9.4                          |
| Esthetic enjoyment          | 1,728,201       | 22      | 942,533            | 31      | 2,670,734  | 25      | 5.3                          |
| Firewood                    | 447,784         | 6       | 70,180             | 2       | 517,964    | 5       | 11.2                         |
| Other                       | 216,487         | 3       | 70,626             | 2       | 287,113    | 3       | 15.8                         |
| No answer                   | 250,292         | 3       | 145,085            | 5       | 395,377    | 3       | 13.1                         |
| Total                       | 7,809,968       | 100     | 3,001,932          | 100     | 10,811,900 | 100     | 0.3                          |

Table 37.--Estimated number of private owners and acres of timberland owned  
by request for forest assistance and harvest history, Wisconsin, 1997

| Forestry<br>assistance<br>requested | Harvester |         | Nonharvester |         | Total      |         |
|-------------------------------------|-----------|---------|--------------|---------|------------|---------|
|                                     | Number    | Percent | Number       | Percent | Number     | Percent |
| Owners                              |           |         |              |         |            |         |
| Yes                                 | 48,771    | 41      | 25,709       | 18      | 74,480     | 28      |
| No                                  | 68,896    | 57      | 104,256      | 73      | 173,152    | 66      |
| No answer                           | 2,483     | 2       | 12,119       | 9       | 14,602     | 6       |
| Total                               | 120,150   | 100     | 142,084      | 100     | 262,234    | 100     |
| Acres Owned                         |           |         |              |         |            |         |
| Yes                                 | 5,026,489 | 64      | 1,064,752    | 35      | 6,091,241  | 56      |
| No                                  | 2,696,712 | 35      | 1,848,106    | 61      | 4,544,818  | 42      |
| No answer                           | 86,767    | 1       | 89,074       | 4       | 175,841    | 2       |
| Total                               | 7,809,968 | 100     | 3,001,932    | 100     | 10,811,900 | 100     |

Table 38.--Estimated number of private owners and acres  
of timberland owned by availability for recreation, Wisconsin, 1997

| Recreation<br>availability                               | Owners  |         | Acres owned |         |
|----------------------------------------------------------|---------|---------|-------------|---------|
|                                                          | Number  | Percent | Number      | Percent |
| Owner does not<br>recreate but<br>permits public use     | 14,893  | 6       | 1,698,580   | 16      |
| Owner recreates and<br>permits public use                | 38,668  | 15      | 2,492,265   | 23      |
| Owners recreates<br>and excludes public                  | 125,465 | 48      | 5,157,767   | 48      |
| Owner recreates and<br>did not answer<br>on availability | 17      | **      | 15,156      | **      |
| Subtotal recreation                                      | 179,043 | 69      | 9,363,768   | 87      |
| Not used and not<br>permitted                            | 66,828  | 25      | 1,078,633   | 10      |
| No answer                                                | 16,363  | 6       | 369,499     | 3       |
| Total                                                    | 262,234 | 100     | 10,811,900  | 100     |

\*\* Less than 0.5 percent.

Table 39.--Estimated number of private owners and acres of timberland owned by type of recreational use by owner, owner's family, or immediate circle of friends, Wisconsin, 1997

| Recreation by owners, family, and friends | Private owners |         | Acres owned |         |
|-------------------------------------------|----------------|---------|-------------|---------|
|                                           | Number         | Percent | Number      | Percent |
| Hiking                                    | 94,796         | 36      | 4,567,620   | 42      |
| Picnicking                                | 46,750         | 18      | 2,569,214   | 24      |
| Camping                                   | 45,712         | 17      | 2,722,789   | 25      |
| Hunting                                   | 109,429        | 42      | 5,492,001   | 51      |
| Fishing                                   | 27,879         | 11      | 1,903,817   | 18      |
| Snowmobiling                              | 40,833         | 16      | 2,461,648   | 23      |
| Winter sports                             | 45,372         | 17      | 2,571,271   | 24      |
| Birdwatching                              | 83,465         | 32      | 3,404,263   | 31      |
| Other                                     | 11,243         | 4       | 476,317     | 4       |
| All types <sup>1</sup>                    | 164,113        | 63      | 7,650,032   | 71      |
| No use indicated                          | 98,121         | 37      | 3,161,868   | 29      |
| Total                                     | 262,234        | 100     | 10,811,900  | 100     |

<sup>1</sup> Columns do not add to total because some owners report more than one type of use.

Table 40.--Estimated number of private owners and acres of timberland owned by type of public use permitted, Wisconsin, 1997

| Type of public use permitted                   | Owners  |         | Acres owned |         |
|------------------------------------------------|---------|---------|-------------|---------|
|                                                | Number  | Percent | Number      | Percent |
| Hiking                                         | 6,834   | 3       | 1,549,033   | 14      |
| Picnicking                                     | 3,389   | 1       | 1,188,652   | 11      |
| Camping                                        | 3,025   | 1       | 353,352     | 3       |
| Hunting                                        | 13,612  | 5       | 1,871,736   | 17      |
| Fishing                                        | 3,920   | 1       | 1,349,594   | 12      |
| Snowmobiling                                   | 14,761  | 6       | 1,814,991   | 17      |
| Winter sports                                  | 6,698   | 3       | 1,380,005   | 13      |
| Birdwatching                                   | 7,244   | 3       | 1,510,625   | 14      |
| Other                                          | 3,474   | 1       | 509,935     | 5       |
| Some type of public use permitted <sup>1</sup> | 53,561  | 21      | 4,190,845   | 39      |
| Public use not permitted                       | 125,465 | 48      | 5,157,767   | 48      |
| No uses indicated                              | 83,208  | 31      | 1,463,288   | 13      |
| Total                                          | 262,234 | 100     | 10,811,900  | 100     |

<sup>1</sup> Columns do not add to total because some owners report more than one type of recreation.

Table 41.--Estimated number of private owners and acres of timberland owned by availability for recreation and size class, Wisconsin, 1997

| Availability<br>for recreation | Size class of ownership (acres) |         |           |         |           |         |           |         |           |         |            |         |
|--------------------------------|---------------------------------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|------------|---------|
|                                | 1-19                            |         | 20-49     |         | 50-99     |         | 100-499   |         | 500+      |         | All owners |         |
|                                | Number                          | Percent | Number    | Percent | Number    | Percent | Number    | Percent | Number    | Percent | Number     | Percent |
| Owners                         |                                 |         |           |         |           |         |           |         |           |         |            |         |
| Public permitted               | 14,949                          | 11      | 15,105    | 22      | 13,685    | 37      | 9,276     | 38      | 547       | 53      | 53,562     | 20      |
| No answer                      | 116,397                         | 89      | 53,975    | 78      | 22,894    | 63      | 14,917    | 62      | 489       | 47      | 208,672    | 80      |
| Total                          | 131,346                         | 100     | 69,080    | 100     | 36,579    | 100     | 24,193    | 100     | 1,036     | 100     | 262,234    | 100     |
| Acres Owned                    |                                 |         |           |         |           |         |           |         |           |         |            |         |
| Public permitted               | 154,754                         | 18      | 486,434   | 23      | 776,680   | 34      | 1,437,619 | 39      | 1,335,358 | 73      | 4,190,845  | 39      |
| No answer                      | 702,482                         | 82      | 1,670,589 | 77      | 1,512,867 | 66      | 2,242,581 | 61      | 492,536   | 27      | 6,621,055  | 61      |
| Total                          | 857,236                         | 100     | 2,157,023 | 100     | 2,289,547 | 100     | 3,680,200 | 100     | 1,827,894 | 100     | 10,811,900 | 100     |

Table 42.--Estimated number of private owners and acres of timberland owned by availability for hunting, Wisconsin, 1997

| Hunting availability                           | Owners  |         | Acres owned |         |
|------------------------------------------------|---------|---------|-------------|---------|
|                                                | Number  | Percent | Number      | Percent |
| Owner permits hunting and does not hunt        | 13,612  | 5       | 1,871,736   | 17      |
| Owner hunts and permits hunting                | 21,856  | 8       | 1,346,004   | 12      |
| Owner hunts and does not permit public to hunt | 109,429 | 42      | 5,492,001   | 51      |
| Subtotal                                       | 144,897 | 55      | 8,709,741   | 80      |
| No answer                                      | 117,337 | 45      | 2,102,159   | 20      |
| Total                                          | 262,234 | 100     | 10,811,900  | 100     |

Table 43.--Estimated number of private owners and acres of timberland owned by whether land is posted or not posted and Forest Survey Unit, Wisconsin, 1997

| Land posted     | Northeastern |         | Northwestern |         | Central   |         | Southwestern |         | Southeastern |         | All units  |         |
|-----------------|--------------|---------|--------------|---------|-----------|---------|--------------|---------|--------------|---------|------------|---------|
|                 | Number       | Percent | Number       | Percent | Number    | Percent | Number       | Percent | Number       | Percent | Number     | Percent |
| Owners          |              |         |              |         |           |         |              |         |              |         |            |         |
| Land posted     | 19,770       | 54      | 16,254       | 23      | 36,714    | 59      | 24,288       | 64      | 17,118       | 31      | 114,144    | 44      |
| Land not posted | 15,601       | 42      | 43,823       | 62      | 19,686    | 32      | 13,386       | 35      | 35,974       | 66      | 128,470    | 49      |
| No answer       | 1,547        | 4       | 10,584       | 15      | 5,349     | 9       | 475          | 1       | 1,665        | 3       | 19,620     | 7       |
| Total           | 36,918       | 100     | 70,661       | 100     | 61,749    | 100     | 38,149       | 100     | 54,757       | 100     | 262,234    | 100     |
| Acres Owned     |              |         |              |         |           |         |              |         |              |         |            |         |
| Land posted     | 1,258,511    | 52      | 1,295,974    | 40      | 1,619,122 | 68      | 1,170,819    | 62      | 572,355      | 61      | 5,916,781  | 55      |
| Land not posted | 1,124,691    | 46      | 1,676,522    | 53      | 694,822   | 29      | 670,006      | 35      | 341,101      | 37      | 4,507,142  | 42      |
| No answer       | 49,098       | 2       | 193,204      | 7       | 80,956    | 3       | 47,375       | 3       | 17,344       | 2       | 387,977    | 3       |
| Total           | 2,432,300    | 100     | 3,165,700    | 100     | 2,394,900 | 100     | 1,888,200    | 100     | 930,800      | 100     | 10,811,900 | 100     |

Table 44.--Estimated number of private owners and acres of timberland owned by size class and whether land is posted or not posted, Wisconsin, 1997

| Posting status  | Ownership size class (acres) |         |             |         |              |         |            |         |            |         |
|-----------------|------------------------------|---------|-------------|---------|--------------|---------|------------|---------|------------|---------|
|                 | 1-9 acres                    |         | 10-49 acres |         | 50-499 acres |         | 500+ acres |         | Total      |         |
|                 | Number                       | Percent | Number      | Percent | Number       | Percent | Number     | Percent | Number     | Percent |
| Owners          |                              |         |             |         |              |         |            |         |            |         |
| Land posted     | 18,598                       | 20      | 56,140      | 52      | 38,711       | 64      | 694        | 67      | 114,143    | 44      |
| Land not posted | 58,167                       | 61      | 49,554      | 45      | 20,410       | 33      | 339        | 33      | 128,470    | 49      |
| No answer       | 14,798                       | 19      | 3,168       | 3       | 1,651        | 3       | 4          | **      | 19,621     | 7       |
| Total           | 91,563                       | 100     | 108,862     | 100     | 60,772       | 100     | 1,037      | 100     | 262,234    | 100     |
| Acres Owned     |                              |         |             |         |              |         |            |         |            |         |
| Land posted     | 84,890                       | 25      | 1,430,722   | 53      | 3,780,730    | 63      | 620,440    | 34      | 5,916,782  | 55      |
| Land not posted | 208,315                      | 61      | 1,175,022   | 44      | 2,011,194    | 34      | 1,112,611  | 61      | 4,507,142  | 42      |
| No answer       | 46,126                       | 14      | 69,185      | 3       | 177,822      | 3       | 94,843     | 5       | 387,976    | 3       |
| Total           | 339,331                      | 100     | 2,674,929   | 100     | 5,969,746    | 100     | 1,827,894  | 100     | 10,811,900 | 100     |

\*\* Less than 0.5 percent.

Table 45.--Estimated number of private owners and acres of timberland owned  
by reason for posting and use permitted, Wisconsin, 1997

| Reason for posting     | Public permitted |         | No answer |         | Total      |         | Sampling  |
|------------------------|------------------|---------|-----------|---------|------------|---------|-----------|
|                        | Number           | Percent | Number    | Percent | Number     | Percent | error (%) |
| Owners                 |                  |         |           |         |            |         |           |
| Past abuse of property | 1,463            | 3       | 3,765     | 2       | 5,228      | 2       | 22.1      |
| Safety                 | 994              | 2       | 7,284     | 3       | 8,278      | 3       | 22.6      |
| Liability              | 418              | 1       | 4,347     | 2       | 4,765      | 2       | 34.3      |
| Control hunting        | 7,011            | 13      | 16,047    | 8       | 23,058     | 9       | 11.0      |
| Prohibit hunting       | 671              | 1       | 10,996    | 5       | 11,667     | 4       | 58.9      |
| Control access         | 3,498            | 7       | 12,039    | 6       | 15,537     | 6       | 13.3      |
| Prohibit access        | 9,098            | 17      | 35,682    | 17      | 44,780     | 17      | 9.1       |
| Other                  | 207              | **      | 601       | **      | 808        | **      | 45.0      |
| Reason not specified   | -                | -       | 22        | **      | 22         | **      | 98.7      |
| Total posted           | 23,360           | 44      | 90,783    | 44      | 114,143    | 44      | 7.6       |
| Land not posted        | 30,062           | 56      | 98,408    | 47      | 128,470    | 49      | 10.2      |
| No answer              | 140              | **      | 19,481    | 9       | 19,621     | 7       | 32.7      |
| Total                  | 53,562           | 100     | 208,672   | 100     | 262,234    | 100     | 6.2       |
| Sampling error (%)     | 8.2              |         | 7.7       |         | 6.2        |         |           |
| Acres owned            |                  |         |           |         |            |         |           |
| Past abuse of property | 145,867          | 3       | 255,561   | 4       | 401,427    | 4       | 13.3      |
| Safety                 | 108,151          | 3       | 236,477   | 4       | 344,628    | 3       | 14.1      |
| Liability              | 65,229           | 2       | 172,488   | 3       | 237,717    | 2       | 17.4      |
| Control hunting        | 512,664          | 12      | 892,451   | 13      | 1,405,115  | 13      | 7.0       |
| Prohibit hunting       | 40,941           | 1       | 203,824   | 3       | 244,765    | 2       | 17.1      |
| Control access         | 308,277          | 7       | 661,288   | 10      | 969,565    | 9       | 8.4       |
| Prohibit access        | 457,192          | 11      | 1,759,708 | 27      | 2,216,900  | 21      | 5.5       |
| Other                  | 32,722           | 1       | 42,880    | 1       | 75,602     | 1       | 30.5      |
| Reason not specified   | 12,879           | **      | 8,183     | **      | 21,062     | **      | 72.7      |
| Total posted           | 1,683,922        | 40      | 4,232,860 | 65      | 5,916,782  | 55      | 3.4       |
| Land not posted        | 2,494,468        | 59      | 2,012,673 | 30      | 4,507,142  | 42      | 4.6       |
| No answer              | 12,455           | 1       | 375,522   | 5       | 387,976    | 3       | 23.0      |
| Total                  | 4,190,845        | 100     | 6,621,055 | 100     | 10,811,900 | 100     | 0.3       |
| Sampling error (%)     | 5.2              |         | 3.3       |         | 0.3        |         |           |

\*\* Less than 0.5 percent.

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Leatherberry, Earl C.

2001. **Wisconsin private timberland owners: 1997.** Res. Pap. NC-339. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Research Station. 84 p.

Identifies and profiles Wisconsin's private timberland owners. Estimates the number and distribution of private timberland owners by owner attitudes and objectives concerning forest ownership, management, and use. Provides 45 tables relating owner and property characteristics for the State and its five survey units.

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**KEY WORDS:** Private landowner, owner objectives, owner attitudes, harvesting, forestry assistance, recreation.





Our job at the North Central Research Station is discovering and creating new knowledge and technology in the field of natural resources and conveying this information to the people who can use it. As a new generation of forests emerges in our region, managers are confronted with two unique challenges: (1)

Dealing with the great diversity in composition, quality, and ownership of the forests, and (2) Reconciling the conflicting demands of the people who use them. Helping the forest manager meet these challenges while protecting the environment is what research at North Central is all about.